

State of California  
The Resources Agency

DEPARTMENT OF WATER RESOURCES  
Division of Operations and Maintenance

# STATE WATER PROJECT OPERATIONS DATA

For the month of:  
**November**  
**2008**

**Edmund G. Brown Jr.**  
Governor  
**State of California**

**John Laird**  
Secretary for Resources  
**The Resources Agency**

**Mark Cowin**  
Director  
**Department of Water Resources**

This monthly report of operational data for the State Water Project has been published since January 1965. Monthly SWP Operations Data Reports from January 1990 have been made available on the Internet at <http://www.water.ca.gov/swp/operationscontrol/projectwide.cfm>. It provides the State Water Service Contractors, public agencies, consultants and others with the daily and monthly status of the Project's water and power operations.

Revisions to these data will appear in the Annual Report of Operations reflecting corrections made after the monthly summaries have been printed.

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**MARK COWIN, Director**

Department of Water Resources  
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The organization shown above represents staff and positions relevant to this report as of publication date on December 2011. It is the Department's policy to not show staff in "Acting" or "Temporary" positions.

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## **MONTHLY HIGHLIGHTS**

The following highlights are activities or actions that impacted State Water Project operations during the month of November 2008.

Statewide precipitation was about 85 percent of average for the 2007 - 2008 water-year through November 30. Statewide runoff was 55 percent of average for the water year. Precipitation percentages are used in this report to express historical and regional comparisons. Additional and more specific information is available via the internet at: "[http://cdec.water.ca.gov/snow\\_rain.html](http://cdec.water.ca.gov/snow_rain.html)".

Snowpack and runoff data are compiled four times a year, for the months of January, February, March, and April, by the California Department of Water Resources in Bulletin 120. The Bulletin also contains forecasts of the volume of seasonal runoff from the state's major watersheds, summaries of precipitation, and reservoir storages in various regions of the State.

Statewide reservoir storage was 70% of average to date. Total storage in major SWP reservoirs at the end of November 2008 was about 1.77 maf, compared with about 2.39 maf at this time in 2007. On November 30, 2008, end-of-month storage at Lake Oroville was about .999 maf, as compared to 1.27 maf at this time in 2007. The State share of San Luis Reservoir's end-of-month storage was about 225 taf, as compared with 557 taf at this time in 2007. The combined storage in SWP's southern reservoirs was about 544 taf, compared with about 559 taf at this time in 2007.

SWP water deliveries to date through November 2008 were about 2.73 maf. This is a combination of project, transfer, and exchange waters. Total deliveries through this same period in 2007 were 4.11 maf.

The Coordinated Operations Agreement (COA) remained in "Balanced" conditions throughout the end of 2008.

On November 26, Chrisman Plant reported excess water leaking from the roof onto Unit 4 excitation equipment. Unit 4 was swapped for Unit 6 so that personnel could clean up the water. Southern Field Division notified POC that the Lower Quail Lake drawdown was close to exceeding the limits. Warne generation was manipulated to prevent violating the criteria.

**Table 1. Antelope Lake**

Daily Operation

(in acre-feet except as noted)

Capacity: 22,566 ac-ft

**November 2008**

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Outflow in cfs					Computed Inflow (cfs)	
				Regulated Release			Spill	Estimated Evaporation And Seepage		
				Stream-flow Maint.	Water Supply Contract	Water Right				
Oct 31	4992.08	14,408								
1	4992.18	14,480	72	10	0	0	0	2	12	
2	4992.23	14,516	36	10	0	0	0	2	12	
3	4992.26	14,537	21	10	0	0	0	2	12	
4	4992.26	14,537	0	10	0	0	0	2	12	
5	4992.25	14,530	-7	10	0	0	0	2	12	
6	4992.23	14,516	-14	10	0	0	0	2	12	
7	4992.21	14,501	-15	10	0	0	0	2	12	
8	4992.21	14,501	0	10	0	0	0	2	12	
9	4992.19	14,487	-14	10	0	0	0	2	12	
10	4992.18	14,480	-7	10	0	0	0	2	12	
11	4992.16	14,465	-15	10	0	0	0	2	12	
12	4992.20	14,494	29	10	0	0	0	2	12	
13	4992.18	14,480	-14	10	0	0	0	2	12	
14	4992.14	14,451	-29	10	0	0	0	2	12	
15	4992.12	14,437	-14	10	0	0	0	2	12	
16	4992.10	14,423	-14	10	0	0	0	2	12	
17	4992.08	14,408	-15	10	0	0	0	2	12	
18	4992.06	14,394	-14	10	0	0	0	2	12	
19	4992.04	14,380	-14	10	0	0	0	2	12	
20	4992.01	14,358	-22	10	0	0	0	2	12	
21	4991.98	14,337	-21	10	0	0	0	2	12	
22	4991.97	14,330	-7	10	0	0	0	2	12	
23	4991.94	14,309	-21	10	0	0	0	2	12	
24	4991.92	14,294	-15	10	0	0	0	2	12	
25	4991.90	14,280	-14	10	0	0	0	2	12	
26	4991.88	14,266	-14	10	0	0	0	2	12	
27	4991.86	14,252	-14	10	0	0	0	2	12	
28	4991.84	14,238	-14	10	0	0	0	1	11	
29	4991.81	14,216	-22	10	0	0	0	1	11	
30	4991.77	14,188	-28	10	0	0	0	1	11	
Total cfs-days				---	300	0	0	57	357	
Total ac-ft				-220	595	0	0	113	708	
									488	

**Table 2. Frenchman Lake**

Daily Operation  
(in acre-feet except as noted)

Capacity: 55,477 ac-ft

**November 2008**

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Outflow in cfs						Computed Inflow (cfs)	
				Regulated Release			Spill	Estimated Evaporation And Seepage	Total Outflow		
				Stream-flow Maint.	1/ Water Supply Contract	Water Right					
Oct 31	5564.22	25,382									
1	5564.30	25,460	78	2	2	0	0	3	7	46	
2	5564.39	25,547	87	2	2	0	0	3	7	51	
3	5564.40	25,557	10	2	2	0	0	3	7	12	
4	5564.40	25,557	0	2	2	0	0	3	7	7	
5	5564.40	25,557	0	2	2	0	0	3	7	7	
6	5564.40	25,557	0	2	2	0	0	3	7	7	
7	5546.38	25,537	-20	2	1	0	0	3	6	-4	
8	5564.41	25,567	30	2	0	0	0	3	5	20	
9	5564.42	25,577	10	2	0	0	0	3	5	10	
10	5564.42	25,577	0	2	0	0	0	3	5	5	
11	5564.42	25,577	0	2	0	0	0	3	5	5	
12	5564.41	25,567	-10	2	0	0	0	3	5	0	
13	5564.41	25,567	0	2	0	0	0	3	5	5	
14	5564.38	25,537	-30	2	0	0	0	3	5	-10	
15	5564.38	25,537	0	2	0	0	0	3	5	5	
16	5564.37	25,528	-9	2	0	0	0	3	5	0	
17	5764.37	25,528	0	2	0	0	0	3	5	5	
18	5564.36	25,518	-10	2	0	0	0	3	5	0	
19	5764.35	25,508	-10	2	0	0	0	3	5	0	
20	5564.34	25,498	-10	2	0	0	0	2	4	-1	
21	5564.33	25,489	-9	2	0	0	0	2	4	-1	
22	5564.33	25,489	0	2	0	0	0	2	4	4	
23	5564.33	25,489	0	2	0	0	0	2	4	4	
24	5564.32	25,479	-10	2	0	0	0	2	4	-1	
25	5564.32	25,479	0	2	0	0	0	2	4	4	
26	5564.31	25,469	-10	2	0	0	0	2	4	-1	
27	5564.31	25,469	0	2	0	0	0	2	4	4	
28	5564.29	25,450	-19	2	0	0	0	2	4	-6	
29	5564.29	25,450	0	2	0	0	0	2	4	4	
30	5564.29	25,450	0	2	0	0	0	2	4	4	
Total cfs-days				---	60	13	0	0	79	152	186
Total ac-ft				68	119	26	0	0	156	301	369

1/ Last Chance Creek Water District

**Table 3. Lake Davis**

Daily Operation  
(in acre-feet except as noted)

Capacity: 84,371 ac-ft

**November 2008**

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Outflow in cfs						Computed Inflow (cfs)	
				Regulated Release			Spill	Estimated Evaporation And Seepage	Total Outflow		
				Stream-flow Maint.	Water Supply Contract	Water Right 1/					
Oct 31	5761.27	38,884									
1	5761.53	39,561	677	10	0	0.2	0	7	17	358	
2	5761.59	39,719	158	10	0	0.2	0	7	17	97	
3	5761.60	39,745	26	10	0	0.2	0	7	17	30	
4	5761.62	39,798	53	10	0	0.2	0	7	17	44	
5	5761.61	39,771	-27	10	0	0.2	0	7	17	3	
6	5761.59	39,719	-52	10	0	0.2	0	7	17	-9	
7	5761.57	39,666	-53	10	0	0.2	0	7	17	-10	
8	5761.57	39,666	0	10	0	0.2	0	7	17	17	
9	5761.59	39,719	53	10	0	0.2	0	7	17	44	
10	5761.58	39,692	-27	10	0	0.2	0	7	17	3	
11	5761.57	39,666	-26	10	0	0.2	0	7	17	4	
12	5761.55	39,614	-52	10	0	0.2	0	7	17	-9	
13	5761.55	39,614	0	10	0	0.2	0	7	17	17	
14	5761.53	39,561	-53	10	0	0.2	0	7	17	-10	
15	5761.52	39,535	-26	10	0	0.2	0	7	17	4	
16	5761.51	39,509	-26	10	0	0.2	0	7	17	4	
17	5761.49	39,457	-52	10	0	0.2	0	7	17	-9	
18	5761.48	39,430	-27	10	0	0.2	0	7	17	3	
19	5761.47	39,404	-26	10	0	0.2	0	7	17	4	
20	5761.46	39,378	-26	10	0	0.2	0	7	17	4	
21	5761.45	39,352	-26	10	0	0.2	0	7	17	4	
22	5761.44	39,326	-26	10	0	0.2	0	7	17	4	
23	5761.43	39,300	-26	10	0	0.2	0	7	17	4	
24	5761.43	39,300	0	10	0	0.2	0	7	17	17	
25	5761.43	39,300	0	10	0	0.2	0	7	17	17	
26	5761.42	39,274	-26	10	0	0.2	0	7	17	4	
27	5761.40	39,222	-52	10	0	0.2	0	7	17	-9	
28	5761.39	39,195	-27	10	0	0.2	0	7	17	3	
29	5761.37	39,143	-52	10	0	0.2	0	7	17	-9	
30	5761.37	39,143	0	10	0	0.2	0	6	16	16	
Total cfs-days				---	294	0	6	0	209	509	640
Total ac-ft				259	583	0	12	0	415	1,010	1,269

1/ Includes unclassified non-project diversions to local agencies (Valberti and Romelli)

**Table 4. Lake Oroville**

Daily Operation

(in acre-feet except as noted)

Capacity: 3,537, 580 ac-ft

**November 2008**

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Outflow							Inflow		
				Hyatt Powerplant Generation 1/	Palermo Canal 2/	Lime Saddle Marina	Butte County Del Oro	Evaporation 3/	Spill	Total Outflow	Hyatt Powerplant Pumpback	Computed Inflow 4/	
Oct 31	668.38	1,029,201											
1	667.85	1,025,685	-3,516	6,076	12	0	0	24	0	6,112	0	2,596	
2	668.80	1,031,993	6,308	7,414	12	0	0	40	0	7,466	0	13,774	
3	668.90	1,032,659	666	6,927	9	0	0	35	0	6,971	0	7,637	
4	668.95	1,032,992	333	6,119	7	0	0	15	0	6,141	0	6,474	
5	668.90	1,032,659	-333	5,466	6	0	0	44	0	5,516	0	5,183	
6	668.85	1,032,326	-333	5,841	6	0	0	25	0	5,872	0	5,539	
7	668.50	1,029,999	-2,327	3,573	6	0	0	10	0	3,589	0	1,262	
8	668.62	1,030,796	797	3,296	6	0	0	30	0	3,332	0	4,129	
9	668.78	1,031,860	1,064	3,076	6	0	0	35	0	3,117	0	4,181	
10	668.84	1,032,259	399	3,165	6	0	0	30	0	3,201	0	3,600	
11	669.10	1,033,997	1,738	1,437	6	0	0	20	0	1,463	0	3,201	
12	669.55	1,036,998	3,001	4,615	6	0	0	0	0	4,621	0	7,622	
13	669.27	1,035,130	-1,868	7,701	6	0	0	20	0	7,727	0	5,859	
14	668.45	1,029,666	-5,464	8,845	6	0	0	54	0	8,905	0	3,441	
15	667.78	1,025,222	-4,444	7,908	6	0	0	103	0	8,017	0	3,573	
16	667.10	1,020,724	-4,498	5,948	6	0	0	39	0	5,993	0	1,495	
17	666.40	1,016,108	-4,616	9,109	6	0	0	58	0	9,173	0	4,557	
18	665.50	1,011,835	-4,273	5,416	6	0	0	58	0	5,480	0	1,207	
19	665.35	1,009,211	-2,624	4,666	6	0	0	53	0	4,725	0	2,101	
20	664.98	1,006,788	-2,423	4,834	6	0	0	29	0	4,869	0	2,446	
21	664.65	1,004,630	-2,158	3,976	6	0	0	19	0	4,001	0	1,843	
22	664.60	1,004,304	-326	3,983	6	0	0	19	0	4,008	0	3,682	
23	664.45	1,003,324	-980	4,173	6	0	0	39	0	4,218	0	3,238	
24	664.20	1,001,693	-1,631	4,466	6	0	0	34	0	4,506	0	2,875	
25	664.02	1,000,520	-1,173	4,266	6	0	0	34	0	4,306	0	3,133	
26	663.90	999,738	-782	4,108	6	0	0	5	0	4,119	0	3,337	
27	663.80	999,086	-652	3,642	6	0	0	24	0	3,672	0	3,020	
28	663.83	999,282	196	3,250	7	0	1	5	0	3,263	0	3,459	
29	663.85	999,412	130	3,693	7	0	1	10	0	3,711	0	3,841	
30	663.80	999,087	-325	1,048	7	1	1	58	0	1,115	0	790	
Total				-30,114	148,037	197	1	3	969	0	149,207	0	119,093

1/ Includes bypass flows

2/ South Feather Water and Power Agency

3/ Evaporation will be zero for days when there is precipitation or heavy overcast.

4/ Does not include pumpback.

**Table 5. Thermalito Forebay  
Including Diversion Pool and Power Canal**

Capacity: 25,120 ac-ft

Daily Operation  
(in acre-feet except as noted)

**November 2008**

Date	Storage 1/	Storage Change	Inflow			Outflow					Losses (-) And Gains (+)
			Lake Oroville Releases 2/	Kelly Ridge Generation	Thermalito Pumping- Generating Plant Pumpback	Thermalito Pumping- Generating Plant Generation 3/	Butte County Cal Water	Thermalito Irrigation District	Releases To River 4/	Hyatt Powerplant Pumpback	
Oct 31	24,012										
1	23,499	-513	6,076	48	0	6,872	0	4	1,281	0	1,520
2	23,955	456	7,414	223	0	7,280	0	4	1,273	0	1,376
3	23,350	-605	6,927	10	0	7,368	0	4	1,275	0	1,105
4	23,865	515	6,119	0	0	4,970	0	5	1,269	0	640
5	23,778	-87	5,466	0	0	4,811	0	5	1,249	0	512
6	22,949	-829	5,841	0	0	5,836	0	5	1,249	0	420
7	23,787	838	3,573	0	0	1,797	0	5	1,329	0	396
8	23,695	-92	3,296	0	0	2,316	0	5	1,249	0	182
9	24,051	356	3,076	0	0	1,788	0	5	1,249	0	322
10	23,359	-692	3,165	68	0	2,588	0	5	1,249	0	-83
11	23,015	-344	1,437	0	0	46	0	5	1,247	0	-483
12	23,708	693	4,615	0	0	2,502	0	5	1,247	0	-168
13	24,019	311	7,701	0	0	6,558	0	5	1,249	0	422
14	23,533	-486	8,845	0	0	8,272	0	5	1,249	0	195
15	23,218	-315	7,908	0	0	7,456	0	5	1,249	0	487
16	23,116	-102	5,948	25	0	5,182	0	5	1,249	0	361
17	23,159	43	9,109	0	0	8,276	0	5	1,249	0	464
18	24,417	1,258	5,416	25	0	3,368	0	5	1,249	0	439
19	23,952	-465	4,666	0	0	4,342	0	5	1,249	0	465
20	24,054	102	4,834	274	0	4,168	0	5	1,259	0	426
21	23,892	-162	3,976	495	0	3,800	0	5	1,323	0	495
22	23,716	-176	3,983	475	0	3,690	0	5	1,269	0	330
23	22,727	-989	4,173	463	0	4,738	0	5	1,271	0	389
24	23,135	408	4,466	464	0	3,666	0	5	1,269	0	418
25	22,563	-572	4,266	466	0	4,308	0	5	1,269	0	278
26	23,369	806	4,108	488	0	2,512	0	5	1,269	0	-4
27	24,133	764	3,642	494	0	1,732	0	5	1,269	0	-366
28	23,722	-411	3,250	490	0	2,446	0	5	1,271	0	-429
29	24,099	377	3,693	470	0	2,026	0	5	1,265	0	-490
30	23,880	-219	1,048	460	0	60	0	5	1,249	0	-413
Total		-132	148,037	5,438	0	124,774	0	147	37,892	0	9,206

1/ Sum of Thermalito Forebay and Diversion Pool.

2/ Sum of releases from Lake Oroville through Hyatt plant, and spill.

3/ Includes Bypass flows at Thermalito.

4/ The sum of the flows from fish barrier dam and the fish hatchery.

**Table 6. Thermalito Afterbay**

Daily Operation

(in acre-feet except as noted)

Capacity: 57,040 ac-ft

**November 2008**

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Inflow		Outflow					Losses (-) and Gains (+)	Total Releases to River 2/
				Thermalito Pumping-Generating Plant Generation 1/	Sutter Butte Canal	Western Canal Lateral	Richvale Canal	Western Canal	Afterbay River Outlet	Thermalito Pumping-Generating Plant Pumpback		
Oct 31	129.65	30,998										
1	130.33	33,257	2,259	6,872	1,567	0	653	1,434	1,357	0	398	2,638
2	130.85	35,035	1,778	7,280	1,692	0	653	1,394	1,353	0	-410	2,626
3	131.58	37,603	2,568	7,368	1,800	0	653	1,331	1,160	0	144	2,435
4	131.59	37,639	36	4,970	1,940	0	651	1,228	934	0	-181	2,203
5	131.61	37,711	72	4,811	1,847	0	653	1,146	936	0	-157	2,185
6	131.98	39,047	1,336	5,836	2,083	0	625	1,077	948	0	233	2,197
7	131.14	36,045	-3,002	1,797	2,043	0	563	1,012	901	0	-280	2,230
8	130.53	33,936	-2,109	2,316	2,003	0	541	986	849	0	-46	2,098
9	129.77	31,391	-2,545	1,788	2,003	0	540	988	857	0	55	2,106
10	129.21	29,577	-1,814	2,588	1,980	0	581	942	853	0	-46	2,102
11	127.87	25,443	-4,134	46	1,960	0	599	897	853	0	129	2,100
12	127.21	23,516	-1,927	2,502	1,960	14	601	897	851	0	-107	2,098
13	127.96	25,711	2,195	6,558	1,940	26	591	901	857	0	-48	2,106
14	129.34	29,993	4,282	8,272	1,880	26	518	877	861	0	172	2,110
15	130.41	33,528	3,535	7,456	1,853	26	464	849	857	0	128	2,106
16	130.67	34,414	886	5,182	1,850	26	464	849	863	0	-244	2,112
17	131.90	38,756	4,342	8,276	1,750	26	421	859	857	0	-21	2,106
18	131.80	38,394	-362	3,368	1,620	26	389	879	857	0	41	2,106
19	131.94	38,901	507	4,342	1,603	26	387	887	867	0	-65	2,116
20	132.04	39,266	365	4,168	1,589	20	380	871	869	0	-74	2,128
21	132.10	39,485	219	3,800	1,571	17	380	845	762	0	-6	2,085
22	132.17	39,741	256	3,690	1,567	17	385	813	662	0	10	1,931
23	132.54	41,110	1,369	4,738	1,567	18	385	811	664	0	76	1,935
24	132.64	41,484	374	3,666	1,537	18	385	797	670	0	115	1,939
25	132.83	42,198	714	4,308	1,503	18	385	781	664	0	-243	1,933
26	132.59	41,297	-901	2,512	1,511	18	387	770	666	0	-61	1,935
27	132.20	39,852	-1,445	1,732	1,515	18	385	756	664	0	161	1,933
28	131.94	38,901	-951	2,446	1,521	18	381	760	664	0	-54	1,935
29	131.57	37,568	-1,333	2,026	1,525	18	380	758	657	0	-22	1,922
30	130.65	34,346	-3,222	60	1,523	17	380	758	653	0	49	1,902
Total		3,348		124,774	52,300	389	14,760	28,150	25,466	0	-361	63,358

1/ Includes Bypass flows at Thermalito.

2/ The sum of the flows from the fish barrier dam, fish hatchery, and afterbay river outlet.

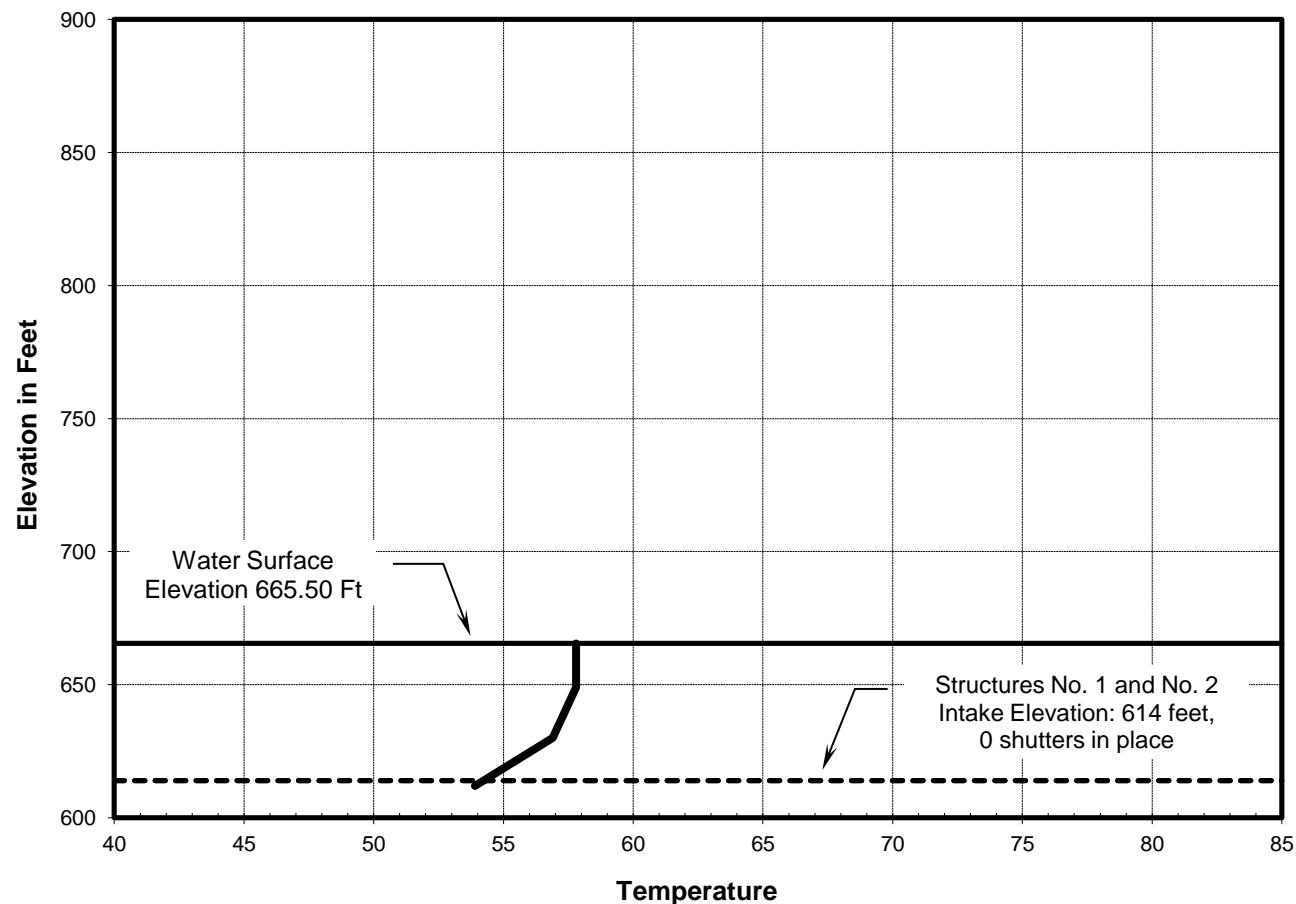
**Table 7. Oroville-Thermalito Complex**

Water Temperature Data

(in degrees Fahrenheit)

November 2008

Date	Mean Daily Temperature	
	Thermalito Afterbay Outlet	Fish Hatchery
1	56	51
2	56	50.2
3	55	50
4	55	50.8
5	54	47.2
6	55	51.4
7	55	52
8	55	51.9
9	55	52.1
10	55	52
11	55	52.4
12	55	52.1
13	56	52.8
14	56	53
15	56	53
16	56	52.4
17	56	51.9
18	56	53.2
19	56	52
20	55	51.2
21	55	50.3
22	54	49.6
23	55	49.1
24	54	48.7
25	54	48.9
26	53	49.1
27	53	49.8
28	53	50.4
29	53	50.7
30	53	51.4

**Lake Oroville Temperature Profile  
on November 18, 2008**

Note: Water surface elevations on Table 4 are taken at Oroville Dam at midnight and may differ slightly from those shown on this table which are normally taken at mid-day and upstream from Oroville Dam.

**Table 8. North Bay Aqueduct**  
Delta Field Division, Monthly Deliveries

(In acre-feet)

**November 2008**

Reach No.	Operating Pool		Turnout	Total Diversions	Deliveries				
	Beginning and Ending				Table A	Article 56C	Permit	Settlement	
	No.	Structure	Mile						
1	1	Barker Slough Pumping Plant	0.17	(Into the North Bay Aqueduct)	4,798	172	119	200 460	
		Travis Surge Tank	8.78						
			8.80	Solano County Water Agency Travis AFB	119				
			10.54	Solano County Water Agency Fairfield / Vacaville 24"	372				
				Solano County Water Agency Fairfield / Vacaville 42"	1,180				
2			17.00	Solano County Water Agency Central Solano	Stub				
3A		Cordelia Forebay	21.23			1/ 2	1,138	456	
		Cordelia Pumping Plant & Cordelia Spillway	21.30		3,025				
		Napa Pipeline	21.33	Solano County Water Agency Vallejo	1,140				
3B	2			Solano County Water Agency Benicia	913	457			
		Cordelia Surge Tank	23.33						
		Creston Surge Tank Connection	25.65						
			26.95	Napa County Flood Control & WCD American Canyon 2	0				
			27.27	Napa County Flood Control & WCD American Canyon 3	0				
		Napa Terminal Tank	27.58	City of Napa	792				
			27.60	Napa County Flood Control & WCD American Canyon 1	180	792	180		

1/ Napa Co. FC&WCD entitlement through Solano Co.'s turnout (Reach 3A) for delivery to American Canyon.

**Table 9. Delta Field Division Plant Data**

(in acre-feet)

**November 2008**

Date	North Bay Aqueduct		California Aqueduct		South Bay Aqueduct			
	Barker Slough Pumping Plant	Cordelia Pumping Plant	Banks Pumping Plant		South Bay Pumping Plant	Del Valle Pumping Plant		
			Total	SWP		Into Lake	Into Aqueduct	Gravity Flow Through Plant Into Aqueduct
1	153	77	787	787	330	0	0	0
2	156	75	833	833	356	0	0	0
3	163	78	884	884	351	0	0	0
4	168	94	3,882	3,882	332	0	0	0
5	173	102	3,880	3,880	286	0	0	0
6	164	99	5,861	5,861	265	0	0	0
7	155	94	5,329	5,329	288	0	0	0
8	152	95	5,800	5,800	292	0	0	0
9	147	94	4,865	4,865	314	0	0	0
10	158	107	4,709	4,709	286	0	0	0
11	151	87	3,960	3,960	245	0	0	8
12	161	94	4,069	4,069	189	0	0	72
13	173	105	7,504	7,504	82	0	0	152
14	172	109	5,886	5,886	0	0	0	235
15	175	114	5,917	5,917	0	0	0	238
16	166	109	5,755	5,755	0	0	0	238
17	160	100	5,863	5,863	0	0	0	238
18	183	115	5,735	5,735	0	0	0	201
19	201	131	4,120	4,120	0	0	0	228
20	203	136	3,917	3,917	0	0	0	228
21	206	134	3,875	3,875	0	0	0	226
22	156	99	3,843	3,843	0	0	0	218
23	158	102	3,846	3,846	0	0	0	218
24	170	108	3,670	3,670	0	0	0	218
25	155	105	3,702	3,702	0	0	0	218
26	162	117	3,129	3,129	0	0	0	204
27	135	102	2,989	2,989	0	0	0	188
28	108	76	2,828	2,828	0	0	0	187
29	105	85	2,856	2,856	0	0	0	186
30	109	82	2,838	2,838	0	0	0	185
Total	4,798	3,025	123,132	123,132	3,616	0	0	3,886

**Table 10. Clifton Court Forebay**

Daily Operation of Gates

**November 2008**

Date	Time								Amount of inflow in Acre-Feet
	Opened	Closed	Opened	Closed	Opened	Closed	Opened	Closed	
1	0:01	1:50							787
2	0:01	1:30							790
3	0:01	2:34							776
4	0:01	5:02	11:00	14:35					3,964
5	0:30	5:50	12:00	14:00					3,944
6	1:30	5:10	8:40	9:45	12:45	18:09			5,928
7	2:45	5:49	9:20	10:45	13:45	20:25			5,932
8	4:15	11:15	14:15	18:45					5,929
9	0:01	0:45	5:30	12:00	15:00	16:47			4,951
10	0:30	1:45	6:45	12:30	15:30	16:30			3,956
11	0:55	1:30	4:30	8:50	12:10	13:41			3,960
12	1:45	2:30	5:30	10:28	12:16	14:48			5,317
13	6:15	11:12	12:12	15:15	20:30	22:30			5,935
14	0:01	1:25	3:20	4:00	7:00	14:55			5,929
15	0:01	3:05	4:50	6:00	9:00	15:05			5,939
16	0:01	1:45	4:05	5:00	8:00	12:35			5,927
17	0:50	3:37	6:00	6:45	9:45	12:45			5,932
18	0:01	3:30	8:17	18:15					5,929
19	0:45	4:18	7:45	8:45	11:45	13:10			3,948
20	4:00	7:06	8:15	9:45	18:45	22:30			3,960
21	5:30	10:30	19:30	23:58					3,961
22	7:00	11:30	20:15						3,950
23		1:00	8:15	12:00	21:00	22:20			2,814
24	0:01	1:00	9:00	13:00					3,949
25	0:40	2:00	10:00	12:30					2,971
26	0:01	2:45	11:00	13:02					2,957
27	0:01	3:30	11:55	13:20					2,968
28	0:01	4:00	12:45	14:27					2,957
29	0:01	3:10	13:30	15:55					2,963
30	0:01	5:30	14:15	16:00					2,967
Total inflow for the month in AF:									122,190

**Table 11. Governor Edmund G. Brown California Aqueduct**

Delta Field Division, Monthly Deliveries

**November 2008**

(In acre-feet)

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries					
	Beginning and Ending		Structure			Table A	USBR	Dry Purchase	General Conveyance	Local Other	
	No.	Structure	Mile								
1A				1.83	Byron-Bethany I.D.	142				142	
1	1	Banks Pumping Plant		3.32		123,132					
		South Bay Pumping Plant		4.49	Bethany Reservoir (Into the South Bay Aqueduct)	3,616					
		Check No. 1		5.95							
				8.08	Alameda Co. Zone 7 WA Mountain House Golf Course	0					
	2	Check No. 2		12.01							
	3			12.47	Musco Olive	37		37			
		Check No. 3		18.29							
	4			22.16	Tracy Golf & Country Club	0					
		Check No. 4		23.99							
2A	5	Check No. 5		29.73							
	6	Check No. 6		34.24							
	7			35.22	Turlock Fruit Company Inflow	0					
		Check No. 7		39.91							
	8			42.46	Oak Flat Water District-A	0					
				42.9	Western Hills WD	51		51			
				43.81	Oak Flat Water District-B	0					
				44.64	Oak Flat Water District-C	0					
		Check No. 8		45.97							
	9			46.18	Oak Flat Water District-D	6	4	2			
					Oak Flat Totals:	6	4	0	2	0	
2B		Check No. 9		51.3							
	10	Check No. 10		56.86							
	11	Check No. 11		61.4							
	12			66.14	Veteran's Cemetery	5		5			
		Check No. 12		66.71		120,171					

**Table 12. South Bay Aqueduct**  
Delta Field Division, Monthly Deliveries

**November 2008**

(In acre-feet)

Reach No.	Operating Pool		Turnout	Total Diversions	Deliveries					
	Beginning and Ending				Table A	Dry Purchase	Recovery 1/	Local	Recreation	
	No.	Structure	Mile							
1	1	South Bay Pumping Plant	0.00	(into South Bay Aqueduct)	3,616	3	314	2	6	
			3.17	Granite - Vasco Rd. (Temp.)	0					
			3.18	Oakland Scavenger Zone 7	3					
	2	Check No. 1	3.91							
		Check No. 2	5.21							
	3		7.15	Zone 7 Water Agency Altamont	0					
		Check No. 3	9.49	Zone 7 Water Agency Patterson Project Water	314					
4	4	Check No. 4	10.68							
	5	Check No. 5	12.29							
	6		13.55	Zone 7 Water Agency Wente #1	2					
			14.16	Zone 7 Water Agency Wente #2	6					
			14.31	Zone 7 Water Agency Ising	0					
		Check No. 6	14.65							
	7		14.78	Zone 7 Water Agency Arroyo Mocho Project Water	0					
		Check No. 7	16.38							
	8		16.57	Zone 7 Water Agency Wente #3	0	17	2	107	80	
			16.63	Zone 7 Water Agency Wente #4	17					
			16.69	Zone 7 Water Agency Norman Nursery	0					
			16.70	Zone 7 Water Agency Concannon Project Water	2					
		Del Valle Branch Pipeline Junction	18.63	Pumped into Lake Del Valle	0					
				Pumped into South Bay Aqueduct	0					
				Gravity into South Bay Aqueduct	3,886					
		Deliveries through Del Valle Branch Pipeline		Zone 7 Water Agency Arroyo Valle #1 & #2 Project Water	136		34	1,000	1,359	
				Storage Exchange	107					
				Inflow Release	80					
				East Bay Regional Park Dist.						
				Del Valle Recreation	3					
				Zone 7 Water Agency Wente #5	25					
6	7		19.20	Zone 7 Water Agency So. Livermore Project Project Water	1,704	670	10	1,000	1,359	
				Storage Exchange	0					
		La Costa Tunnel	19.21	Zone 7 Water Agency Kalthrof Detjens	10					
8			22.50	ACWD Vallecitos Project Water	1,359					
				City of San Francisco San Antonio	0					
		Mission Tunnel	28.97	ACWD - Bayside 1 & 2 Storage Exchange	0					
		Santa Clara Pipeline	35.86	Project Water S.C.V.W.D. Meter	0	1,261	56	2,410		

1/ Semitropic Bank Recovery.

Table 13. Lake Del Valle

Daily Operation

Capacity: 77,106 ac-ft

November 2008

Date	Water Surface Elevation (feet)	Storage	Storage Change	Inflow		Outflow					Precipitation (inches)
				Natural 1/	From South Bay Aqueduct	Arroyo Valle	South Bay Aqueduct 2/	Recreation Deliveries 3/	Evaporation	Total Outflow	
Oct 31	701.71	39,008									
1	701.72	39,015	7	16	0	0	0	1	8	9	0.02
2	701.75	39,036	21	23	0	0	0	1	2	3	0.69
3	701.73	39,022	-14	-9	0	0	0	1	4	5	0.01
4	701.72	39,015	-7	-5	0	0	0	0	2	2	0.14
5	701.71	39,008	-7	-3	0	0	0	0	4	4	0.00
6	701.71	39,008	0	5	0	0	0	0	5	5	0.00
7	701.71	39,008	0	4	0	0	0	0	4	4	0.00
8	701.70	39,001	-7	-1	0	0	0	0	6	6	0.00
9	701.69	38,994	-7	-4	0	0	0	0	3	3	0.11
10	701.67	38,983	-11	-7	0	0	0	0	4	4	0.00
11	701.64	38,960	-24	-12	0	0	8	0	4	12	0.00
12	701.55	38,897	-63	12	0	0	72	0	3	75	0.00
13	701.34	38,751	-146	9	0	0	152	0	3	155	0.00
14	700.99	38,508	-243	-1	0	0	235	0	7	242	0.00
15	700.60	38,239	-269	-23	0	0	238	0	8	246	0.00
16	700.24	37,992	-247	-4	0	0	238	0	6	244	0.00
17	699.89	37,752	-240	4	0	0	238	0	6	244	0.00
18	699.59	37,547	-205	2	0	0	201	0	6	207	0.00
19	699.26	37,323	-224	8	0	0	228	0	5	233	0.00
20	698.92	37,093	-230	2	0	0	228	0	4	232	0.00
21	698.59	36,870	-223	9	0	0	226	0	6	232	0.00
22	698.26	36,648	-222	2	0	0	218	0	6	224	0.00
23	697.93	36,427	-221	1	0	0	218	0	4	222	0.00
24	697.61	36,214	-214	8	0	0	218	0	4	222	0.00
25	697.28	35,994	-219	2	0	0	218	0	3	221	0.00
26	697.00	35,808	-186	21	0	0	204	0	3	207	0.24
27	696.72	35,623	-185	3	0	0	188	0	0	188	0.09
28	696.44	35,439	-184	5	0	0	187	0	3	190	0.00
29	696.17	35,262	-177	10	0	0	186	0	2	188	0.00
30	695.89	35,078	-184	4	0	0	185	0	3	188	0.00
Total				-3,930	80	0	0	3,886	3	121	4,010
											1.30

1/ Total inflow from stream gaging station above Lang Canyon and accretions/depletions.

2/ Project water released to South Bay Aqueduct through Del Valle Pumping Plant.

3/ To East Bay Regional Park District.

NR=No Records

**Table 14. Consolidated State-Federal O'Neill Forebay**

Daily Operations

**November 2008**

United States

Department of the Interior

Bureau of Reclamation

Central Valley Project

State of California

The Resources Agency

Department of Water Resources

State Water Project

Capacity 56,430 ac-ft

Date	Water Surface Elevation (in feet)	Storage (ac-ft)	Storage Change (ac-ft)	Inflow (cfs)				Outflow (cfs)				Computed Losses (-) Gains (+) (cfs)	
				Pump In 1/	O'Neill Pumping Generating Plant (Pumped)	Gianelli Pumping Generating Plant (Generation)	California Aqueduct	O'Neill Pumping Generating Plant (Generation)	Gianelli Pumping Generating Plant (Pumped)	Dos Amigos Pumping Plant	Deliveries 2/		
Oct 31	222.88	50,726											
1	223.22	51,634	908	0	1,793	0	180	0	895	518	2	-100	
2	222.77	50,433	-1,201	0	1,699	806	272	0	1,495	2,034	2	149	
3	222.71	50,273	-160	0	1,591	0	373	0	1,785	306	2	48	
4	222.76	50,406	133	0	2,085	0	1,610	0	3,150	623	2	147	
5	222.45	49,580	-826	0	2,359	0	1,841	0	3,927	815	2	128	
6	222.56	49,873	293	0	2,235	0	2,639	0	4,365	413	3	55	
7	222.07	48,571	-1,302	0	2,262	0	2,752	0	4,980	1,028	5	343	
8	222.61	50,006	1,435	0	2,585	0	2,576	0	3,832	820	7	221	
9	222.29	49,155	-851	0	2,627	0	2,089	0	3,062	2,325	7	249	
10	222.85	50,646	1,491	0	2,615	0	2,272	0	3,073	795	7	-260	
11	222.62	50,033	-613	0	2,704	0	1,779	0	4,303	762	14	287	
12	222.73	50,326	293	0	2,838	0	2,073	0	4,250	676	14	177	
13	224.55	55,211	4,885	0	2,784	0	4,212	0	3,685	1,144	14	310	
14	223.97	53,646	-1,565	0	2,424	0	2,983	0	5,737	548	8	97	
15	223.73	53,001	-645	0	2,320	0	3,392	0	5,491	630	2	86	
16	223.46	52,276	-725	0	2,371	0	2,892	0	3,909	2,094	2	376	
17	223.51	52,410	134	0	1,795	0	3,290	0	4,464	719	2	168	
18	221.41	46,836	-5,574	0	1,610	0	2,833	0	5,888	413	8	-944	
19	222.78	50,459	3,623	0	1,797	0	1,820	0	3,170	486	2	1,868	
20	223.13	51,393	934	0	1,875	0	1,849	0	2,954	579	2	282	
21	223.47	52,303	910	0	1,731	0	1,765	0	2,184	901	5	53	
22	222.85	50,646	-1,657	0	1,697	0	1,944	0	3,921	796	5	246	
23	221.25	46,416	-4,230	0	1,724	0	1,981	0	3,104	2,942	5	213	
24	220.97	45,682	-734	0	1,285	0	1,727	0	2,483	1,088	5	194	
25	220.82	45,289	-393	0	1,005	0	1,814	0	1,962	1,124	5	74	
26	221.21	46,311	1,022	0	825	0	1,696	0	1,179	1,089	5	267	
27	220.17	43,593	-2,718	0	362	0	1,714	0	1,179	2,163	2	-102	
28	220.29	43,905	312	0	375	0	1,275	0	781	1,013	2	303	
29	220.63	44,792	887	0	602	0	1,542	0	455	1,241	2	1	
30	219.70	42,376	-2,416	0	750	0	1,388	0	1,562	1,882	2	90	
Total				-8,350	0	54,725	806	60,573	0	93,225	31,967	145	5,023
Mean cfs				- - -	0	1,824	27	2,019	0	3,108	1,066	5	167
Acre-feet				-8,350	0	108,689	1,666	120,171	0	185,040	63,573	288	10,025

1/ Pump-in located at Mile 79.67R.

2/ Includes 84 AF delivered to DFG at O'Neill Forebay, 0 AF to Parks & Rec., and 204 AF to San Luis Water District.

**Table 15. Consolidated State-Federal San Luis Reservoir**

Daily Operations

**November 2008**

United States

Department of the Interior

Bureau of Reclamation

Central Valley Project

Capacity: 2,027,835 ac-ft

State of California

The Resources Agency

Department of Water Resources

State Water Project

Date	Water Surface Elev. (in feet)	Storage (ac-ft)	Storage Change (ac-ft)	Inflow (cfs)	Outflow (cfs)			Computed Losses (-) Gains (+) (cfs)
				Gianelli Pumping Generating Plant (Pumped)	Gianelli Pumping Generating Plant (Generation)	Pacheco Tunnel 1/	Parks and Rec. Del.	
Oct 31	361.80	254,136						
1	362.08	255,830	1,694	895	0	145	0	104
2	362.25	256,860	1,030	1,495	806	140	0	-30
3	362.64	259,229	2,369	1,785	0	142	0	-449
4	363.59	265,036	5,807	3,150	0	99	0	-123
5	364.60	271,263	6,227	3,927	0	132	0	-656
6	365.87	279,172	7,909	4,365	0	142	0	-236
7	367.23	287,736	8,564	4,980	0	154	0	-508
8	368.30	294,541	6,805	3,832	0	152	0	-249
9	369.11	299,731	5,190	3,062	0	143	0	-302
10	370.02	305,602	5,871	3,073	0	147	0	34
11	371.11	312,689	7,087	4,303	0	148	0	-582
12	372.01	318,585	5,896	4,250	0	161	0	-1,116
13	372.99	325,049	6,464	3,685	0	167	0	-259
14	374.48	334,965	9,916	5,737	0	192	0	-546
15	375.93	344,715	9,750	5,491	0	189	0	-386
16	376.82	351,007	6,292	3,909	0	189	0	-548
17	377.94	358,730	7,723	4,464	0	205	0	-365
18	379.30	368,189	9,459	5,888	0	213	0	-906
19	380.07	373,584	5,395	3,170	0	200	0	-250
20	380.76	378,442	4,858	2,954	0	192	0	-313
21	381.24	381,835	3,393	2,184	0	179	0	-294
22	382.17	388,441	6,606	3,921	0	184	0	-407
23	382.86	393,369	4,928	3,104	0	173	0	-447
24	383.43	397,456	4,087	2,483	0	186	0	-237
25	384.32	403,869	6,413	1,962	0	190	0	1,461
26	384.54	405,460	1,591	1,179	0	190	0	-187
27	384.77	407,126	1,666	1,179	0	189	0	-150
28	384.90	408,069	943	781	0	192	0	-114
29	384.94	408,359	290	455	0	190	0	-119
30	385.22	410,393	2,034	1,562	0	153	0	-384
Total			156,257	93,225	806	5,078	0	-8,564
Mean cfs			---	3,108	27	169	0	-285
Acre-feet			156,257	185,040	1,666	10,080	0	-17,037

1/ Pacheco Tunnel, San Felipe Split; Santa Clara 9,737 AF, Casa De Fruta 0 AF, and San Benito 343 AF.

**Table 16. San Luis Field Division Plant Data**

(in acre-feet)

**November 2008**

Date	Dos Amigos Pumping Plant		Gianelli Pumping - Generating Plant				San Felipe Project
	Total Pumping	SWP Pumping 1/ 2/	Total Generation	SWP Generation 1/ 2/	Total Pumping	SWP Pumping 1/ 2/	Federal
1	1,027	-362	0	0	1,775	4	288
2	4,202	3,072	1,666	1,666	3,089	-50	289
3	606	-448	0	0	3,541	1,759	281
4	1,235	158	0	0	6,249	4,480	196
5	1,616	546	0	0	7,790	3,295	262
6	819	139	0	0	8,658	4,475	282
7	2,040	1,344	0	0	9,878	4,900	306
8	1,627	927	0	0	7,601	2,733	301
9	4,611	3,896	0	0	6,074	258	283
10	1,577	868	0	0	6,095	983	291
11	1,512	801	0	0	8,535	2,425	294
12	1,341	614	0	0	8,430	3,262	319
13	2,270	1,541	0	0	7,309	4,724	331
14	1,086	619	0	0	11,380	7,978	381
15	1,249	705	0	0	10,891	7,526	374
16	4,154	3,618	0	0	7,754	4,380	375
17	1,426	898	0	0	8,854	5,515	407
18	820	308	0	0	11,679	6,757	423
19	964	441	0	0	6,288	4,632	396
20	1,149	616	0	0	5,860	2,836	380
21	1,787	1,262	0	0	4,332	1,837	356
22	1,578	1,048	0	0	7,777	2,731	365
23	5,835	5,307	0	0	6,156	840	343
24	2,158	1,667	0	0	4,926	1,702	369
25	2,229	1,699	0	0	3,892	1,471	377
26	2,161	1,648	0	0	2,338	1,533	377
27	4,290	3,765	0	0	2,338	1,531	374
28	2,009	1,485	0	0	1,550	760	380
29	2,462	1,931	0	0	902	902	377
30	3,733	3,219	0	0	3,099	3,099	303
Total	63,573	43,332	1,666	1,666	185,040	89,278	10,080

1/ Negative values may appear in SWP columns and indicate a mismatch of scheduled CVP energy and actual pumping;  
adjustments to SWP water shares are made to balance the mismatch.

2/ Provisional, subject to change.

**Table 17. Consolidated State-Federal Los Banos Reservoir**

Daily Operations  
November 2008

United States  
Department of the Interior  
Bureau of Reclamation  
Central Valley Project

State of California  
The Resources Agency  
Department of Water Resources  
State Water Project

Capacity 34,560 ac-ft

Date	Water Surface Elev. (in feet)	Storage (ac-ft)	Storage Change (ac-ft)	Estimated Inflow (cfs)	Estimated Outflow (cfs)		Computed Losses (-) Gains (+) (ac-ft)
					Spill	Outlet	
Oct 31	323.13	18,446					
1	323.12	18,442	-4	0	0	0	-4
2	323.10	18,433	-9	0	0	0	-9
3	323.09	18,429	-4	0	0	0	-4
4	323.07	18,420	-9	0	0	0	-9
5	323.06	18,415	-5	0	0	0	-5
6	323.05	18,411	-4	0	0	0	-4
7	323.05	18,411	0	0	0	0	0
8	323.07	18,420	9	5	0	0	-1
9	323.02	18,398	-22	0	0	0	-22
10	323.01	18,393	-5	0	0	0	-5
11	323.01	18,393	0	0	0	0	0
12	323.00	18,389	-4	0	0	0	-4
13	323.01	18,393	4	2	0	0	0
14	323.00	18,389	-4	0	0	0	-4
15	322.99	18,384	-5	0	0	0	-5
16	322.99	18,384	0	0	0	0	0
17	322.98	18,380	-4	0	0	0	-4
18	322.98	18,380	0	0	0	0	0
19	322.96	18,371	-9	0	0	0	-9
20	322.96	18,371	0	0	0	0	0
21	322.94	18,362	-9	0	0	0	-9
22	322.93	18,358	-4	0	0	0	-4
23	322.93	18,358	0	0	0	0	0
24	322.92	18,354	-4	0	0	0	-4
25	322.92	18,354	0	0	0	0	0
26	322.92	18,354	0	0	0	0	0
27	322.96	18,371	17	9	0	0	-1
28	322.95	18,367	-4	0	0	0	-4
29	322.94	18,362	-5	0	0	0	-5
30	322.93	18,358	-4	0	0	0	-4
Total			-88	16	0	0	-120
Mean cfs			---	1	0	0	---
Acre-feet			-88	32	0	0	-120

**Table 18. Consolidated State-Federal Little Panoche Reservoir**

Daily Operations

November 2008

United States

Department of the Interior

Bureau of Reclamation

Central Valley Project

Capacity: 5,580 ac-ft

State of California

The Resources Agency

Department of Water Resources

State Water Project

Date	Water Surface Elev. (in feet)	Storage (ac-ft)	Storage Change (ac-ft)	Estimated Inflow (cfs)	Estimated Outflow (cfs)		Computed Losses (-) Gains (+) (ac-ft)
					Spill	Outlet	
Oct 31	600.50	709					
1	600.50	709	0	0	0	0	0
2	600.50	709	0	0	0	0	0
3	600.50	709	0	0	0	0	0
4	600.50	709	0	0	0	0	0
5	600.50	709	0	0	0	0	0
6	600.50	709	0	0	0	0	0
7	600.50	709	0	0	0	0	0
8	600.50	709	0	0	0	0	0
9	600.50	709	0	0	0	0	0
10	600.50	709	0	0	0	0	0
11	600.50	709	0	0	0	0	0
12	600.50	709	0	0	0	0	0
13	600.50	709	0	0	0	0	0
14	600.50	709	0	0	0	0	0
15	600.50	709	0	0	0	0	0
16	600.50	709	0	0	0	0	0
17	600.50	709	0	0	0	0	0
18	600.50	709	0	0	0	0	0
19	600.50	709	0	0	0	0	0
20	600.50	709	0	0	0	0	0
21	600.50	709	0	0	0	0	0
22	600.50	709	0	0	0	0	0
23	600.50	709	0	0	0	0	0
24	600.50	709	0	0	0	0	0
25	600.50	709	0	0	0	0	0
26	600.50	709	0	0	0	0	0
27	600.50	709	0	0	0	0	0
28	600.50	709	0	0	0	0	0
29	600.50	709	0	0	0	0	0
30	600.50	709	0	0	0	0	0
Total			0	0	0	0	0
Mean cfs			---	0	0	0	---
Acre-feet			0	0	0	0	0

**Table 19. Governor Edmund G. Brown California Aqueduct**

San Luis Field Division, Monthly Deliveries

(In acre-feet)

**November 2008**

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries				
	Beginning and Ending		Structure			USBR	Transfer	DWR Recreation	USBR Recreation	
	No.	Structure	Mile							
2B	12	Check No. 12	66.71		120,171					
3A	3A	San Luis Reservoir		Department of Parks and Recreation	0	9,737	343	0	0	
				San Felipe Division Santa Clara Water District	9,737					
				Casa de Fruita Santa Clara Water District	0					
				San Felipe Division San Benito Water District	343					
				Reach 3A Subtotal:	10,080					
3	3	O'Neill Forebay	70.85	Department of Parks and Recreation	0	10,080	0	0	0	
				Cattle Program	0					
				Department of Fish & Game	84					
		Thru	70.91	San Luis Water District	204	204	46	38		
				(Floodwater Inflow)	0					
				Reach 3 Subtotal:	288					
		Dos Amigos Pumping Plant	86.73		63,573	2,397	0	0	0	
4	4	14	89.03	San Luis Water District	2,397					
				Thru 94.06						
				89.66						
				Thru 89.67						
				89.68	Panoche Water District					
		Thru	89.70	City of Dos Palos	76					
				Check No. 14	95.06					
				98.15	San Luis Water District	306	307	0	0	
5	5	15	98.15	Thru 104.20						
				96.15	Panoche Water District					
				Thru 102.64	(Floodwater Inflow)					
				102.64	Broadview Water District					
				105.22	Westlands Water District					
		Thru	108.64	108.64						
				Check No.15	108.50					
				Reach 4 Subtotal:	4,135					
6	6			San Felipe Division Total:	10,080	4,135	0	0	0	
				Pacheco Water District Total:	138					
				Broadview Water District Total:	0					
				City of Dos Palos Total:	76					
				SLWD Reach 4 Subtotal:	2,703					
				Panoche Water District Total:	342					
				SLWD Total:	2,907					
				Westlands WD Reach 4 Subtotal:	876					

**Table 19. Governor Edmund G. Brown California Aqueduct**

San Luis Field Division, Monthly Deliveries (Continued)

(In acre-feet)

**November 2008**

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries					
	Beginning and Ending		Mile			USBR	Transfer	DWR Recreation	USBR Recreation		
	No.	Structure									
5	16		110.52	(Reverse flow, Kings River)	0	1,803					
				Westlands Water District	1,803						
				Thru	0						
				122.05	0						
				Dept. of Fish and Game @ Lat. 4L	0						
	17		122.07	Dept. of Fish and Game @ Lat. 6L	0	958					
				Dept. of Fish and Game @ Lat. 7L	0						
	18		132.74	Check No. 16	122.07	2,249					
				124.18	Westlands Water District						
				Thru	958						
				132.74							
				Check No. 17	132.95						
6	19		145.26	133.81	Westlands Water District	1,639					
				Thru	2,249						
				142.61	Westlands Water District						
				Pleasant Valley Pumping Plant	1,639						
				143.16	City of Coalinga	381					
				Check No. 18	143.23						
					Reach 5 Subtotal:	7,030	7,030	0	0		
				GWF Energy	2	1,616	1 / 2				
				City of Huron	1						
				Kings County to Lemoore NAS Through WWD	0						
				SWP Construction @ Lat. 22R	0						
				Westlands Water District	1,616						
7	20		151.19	Check No. 19	155.64	1,619	1,617	2	0		
					Reach 6 Subtotal:						
				156.34	City of Huron						
				156.40	SWP Construction @ Lat. 24R						
				Thru	618						
				163.69	Westlands Water District	402	202				
				Check No. 20	164.69						
	21		164.79	164.79	City of Avenal						
				167.04	Westlands Water District						
				Thru	402						
				171.67							
				Check No. 21	172.40	49,321					
					Reach 7 Total:	1,309	1,309	0	0		
					SWP Construction Total:	0	0	0	0		
					Westlands WD Total:	10,161	10,161	0	0		
					City of Coalinga Total:	381	381	0	0		
					City of Huron Total:	88	88	0	0		
					Kings County to Lemoore NAS Through WWD	0	0	0	0		
					City of Avenal Total:	202	202	0	0		
					Total San Luis Field Division Deliveries:	24,461	24,375	2	46		
									38		

1/ From County of Kings - Henrietta Peaker Project - to Westlands Water District.

**Table 20. Consolidated State-Federal San Luis Canal 1/**

**Daily Operations  
November 2008**

United States  
Department of the Interior  
Bureau of Reclamation  
Central Valley Project

State of California  
The Resources Agency  
Department of Water Resources  
State Water Project

Date	Storage In Canal (ac-ft)	Storage Change (ac-ft)	Inflow (cfs)		Outflow (cfs)				Computed Losses (-) Gains (+) (cfs)
			Non- Project	Dos Amigos Pumping Plant	San Luis Water District Pools 14 & 15 2/	Panoche Water District Pools 14 & 15	Westlands Water District Pools 15 thru 21 3/	Flow Past Check 21	
Oct 31	28,084								
1	27,912	-172	0	518	47	5	216	268	-69
2	29,311	1,399	0	2,034	47	5	216	1,120	59
3	28,556	-755	0	306	47	5	216	452	33
4	28,472	-84	0	623	47	5	216	375	-23
5	28,532	60	0	815	47	5	195	427	-111
6	27,951	-581	0	413	62	5	195	390	-54
7	28,122	171	0	1,028	62	5	195	611	-69
8	27,829	-293	0	820	62	5	195	664	-41
9	28,056	227	0	2,325	62	5	195	2,036	87
10	27,979	-77	0	795	62	5	195	601	30
11	27,671	-308	0	762	62	5	195	635	-21
12	27,878	207	0	676	62	5	195	172	-137
13	28,462	584	0	1,144	48	5	183	483	-131
14	28,385	-77	0	548	48	5	183	298	-53
15	28,601	216	0	630	48	5	183	213	-72
16	28,575	-26	0	2,094	48	6	183	1,908	38
17	28,443	-132	0	719	48	6	183	597	49
18	28,195	-248	0	413	48	6	183	297	-4
19	27,937	-258	0	486	48	6	183	381	2
20	28,098	161	0	579	48	6	183	187	-74
21	28,179	81	0	901	46	6	162	574	-72
22	27,626	-553	0	796	46	6	162	791	-70
23	28,065	439	0	2,942	46	6	162	2,564	57
24	28,256	191	0	1,088	46	7	162	815	39
25	28,502	246	0	1,124	46	7	156	791	0
26	28,277	-225	0	1,089	46	7	154	1,166	171
27	27,533	-744	0	2,163	46	7	154	2,598	267
28	27,032	-501	0	1,013	32	7	154	1,201	128
29	27,206	174	0	1,241	32	7	154	950	-10
30	28,075	869	0	1,882	32	7	154	1,301	50
Total		-9	0	31,967	1,471	172	5,462	24,865	-1
Mean cfs		---	0	1,066	49	6	182	829	0
Acre-feet		-9	0	63,573	2,917	342	10,834	49,321	-169

1/ San Luis Canal includes Pools 14 through 21 of the California Aqueduct.

2/ Includes 138 AF to Pacheco W.D., 76 AF to the City of Dos Palos and 2,703 AF to San Luis Water District.

3/ Includes 87 AF to the City of Huron, 202 AF to the City of Avenal, 381 AF to the City of Coalinga, 1 AF to Huron P&R @ 22R, 0 AF to Lemoore N.A.S. @ 29L, 2 AF to GWF @ 30L, 0 AF to Kings County @ 30L, 0 AF to Broadview WD @ 3L, 0 AF to DFG @ 4L, 0 AF to Mendota Water Fowl Habitat Area @ 6L, 0 AF DFG @ 7L, 0 AF NonProject Water, 8,522 AF to Westlands Water District and 1,639 AF to Pleasant Valley Pumping Plant.

**Table 21. San Joaquin Field Division Plant Data**

(in acre-feet)

November 2008

Date	Coastal Aqueduct					California Aqueduct			
	Las Perillas Pumping Plant	Badger Hill Pumping Plant	Devil's Den Pumping Plant	Bluestone Pumping Plant	Polonio Pass Pumping Plant	Buena Vista Pumping Plant	Teerink Pumping Plant	Chrisman Pumping Plant	Edmonston Pumping Plant
1	0	0	0	0	0	1,876	1,787	1,687	1,645
2	0	0	0	0	0	4,714	5,227	5,073	5,181
3	0	0	0	0	0	1,901	1,992	1,842	1,808
4	0	0	0	0	0	2,146	2,201	2,097	2,171
5	0	0	0	0	0	2,254	2,483	2,422	2,343
6	0	0	0	0	0	2,413	2,522	2,368	2,403
7	0	0	0	0	0	2,298	2,703	2,472	2,509
8	0	0	0	0	0	2,538	2,601	2,494	2,506
9	0	1	1	1	1	5,197	5,724	5,569	5,554
10	0	1	1	1	1	2,503	2,709	2,612	2,545
11	0	1	1	1	1	2,358	2,246	2,144	2,081
12	0	0	0	0	0	2,026	2,224	2,087	2,136
13	0	0	0	5	0	2,146	2,202	2,080	2,084
14	0	0	0	0	0	1,839	2,134	2,065	2,018
15	170	178	0	0	0	1,749	1,957	1,892	1,923
16	32	0	0	0	0	5,832	6,520	6,402	6,446
17	56	39	25	18	21	2,445	2,423	2,218	2,193
18	134	68	36	32	38	1,656	1,819	1,694	1,656
19	157	146	44	41	45	1,652	1,861	1,741	1,770
20	63	191	45	41	46	2,299	2,265	1,943	1,928
21	142	70	46	42	47	2,334	2,483	2,380	2,376
22	113	154	47	43	48	2,509	2,624	2,478	2,474
23	29	133	55	49	55	5,986	6,601	6,453	6,446
24	115	31	22	21	23	3,146	3,273	3,062	3,070
25	67	131	50	52	52	3,074	3,125	2,995	2,965
26	63	88	29	27	31	3,283	3,372	3,247	3,153
27	30	73	46	42	48	5,316	6,060	5,818	6,000
28	73	33	35	32	35	3,365	3,548	3,294	3,336
29	42	84	33	29	34	2,798	3,122	2,953	3,188
30	0	47	47	41	47	3,937	4,572	4,441	4,512
Total	1,285	1,469	563	518	573	87,589	94,379	90,022	90,419

**Table 22. Governor Edmund G. Brown California Aqueduct**

San Joaquin Field Division, Monthly Deliveries

(In acre-feet)

**November 2008**

Reach No.	Operating Pool			Turnout	Total Diver-sions	Deliveries				
	Beginning and Ending		No.			Table A	USBR	Recovery 1/	Other	
	No.	Structure	Mile							
7	21	Check No. 21	172.40		49,321					
8C	22		172.66	Empire West Side ID TL - A	0	20	3	17		
				County of Kings TL-A	0					
				Tulare Lake Basin WSD - TL-A	0					
			175.18	Dudley Ridge WD - 1	20					
			177.54	Dudley Ridge WD - 1B	3					
			180.64	Tulare Lake Basin WSD - C	0					
			180.65	Dudley Ridge WD - 1A	0					
			182.99	Dudley Ridge WD - 2	17					
			183.00	Tulare Lake Basin WSD TL-B	0					
				County of Kings TL-B	0					
31A	8D		184.00	Dudley Ridge WD - Paramount	0	22	0	0	0	
			184.63	Coastal Branch	1,285					
8D	22		184.78	Dudley Ridge WD - 3	22	62	0	0	0	
				Dudley Ridge Reach 8D Total:	62					
				Tulare Lake Basin WSD Total:	0	0	0	0	0	
			Check No. 22	184.82						
9	23		189.69	Kern County Water Agency Lost Hills Water Dist. - 1	128	128	22	16	115	
			191.18	Kern County Water Agency Lost Hills Water Dist. - 2	22					
			194.22	Kern County Water Agency Lost Hills Water Dist. - 3	16					
			196.40	Kern County Water Agency Berrenda Mesa - 2	115					
			196.75	Kern County Water Agency Lost Hills Water Dist. - 4	8					
			KCWA Reach 9 Subtotal:		289					
			Check No. 23	197.05						
10A	24		201.24	Kern County Water Agency Lost Hills Water Dist. - 7	68	68	114	4	44	
			202.05	Kern County Water Agency Lost Hills Water Dist. - 5	114					
			204.69	Kern County Water Agency Lost Hills Water Dist. - 6	0					
			205.26	Kern County Water Agency Lost Hills Water Dist. - 8	4					
			Check No. 24	207.94						
			209.71	Kern County Water Agency Belridge Water Storage Dist. - 1A	44	2/ 4,857	4,857	0	0	
10A	25		209.78	Kern National Wildlife Refuge USBR BV-1B	4,857					
				Kern County Water Agency Buena Vista WSD 1B	0					
			209.80	KCWA Semitropic WSD	0					
				KCWA Semitropic WSD Penstocks	0					
				USBR Total:	4,857					
			KCWA Reach 10A Subtotal:		230					

1/ Recovery of same contractors pump-in.

2/ Water supplied by Rosedale Rio at O'Neill and then moved to Kern National Wildlife Refuge.

**Table 22. Governor Edmund G. Brown California Aqueduct**

San Joaquin Field Division, Monthly Deliveries (Continued)

(In acre-feet)

**November 2008**

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries					
	Beginning and Ending		Mile			Table A	USBR	Recovery 1/	Other		
	No.	Structure									
11B	25	210.75 214.11 216.62 217.13	Kern County Water Agency Belridge - 2	0	60	0	60	495	128		
			Kern County Water Agency Belridge - 3	60							
			Kern County Water Agency Belridge - 4	0							
			Kern County Water Agency Belridge - 5A-C	495							
			Kern County Water Agency Belridge - 5D	128							
		Check No. 25	217.79	KCWA Reach 11B Subtotal:	683	0	0	683	0		
12D	26	219.58	Kern County Water Agency Belridge - 6	0	453	0	453	0	0		
			Kern County Water Agency West Kern - 3	453							
		Check No. 26	224.92								
12E	27	230.37	Kern County Water Agency Buena Vista - 6	0	0	0	0	0	0		
		Check No. 27	231.73	.							
	28	235.75	Kern County Water Agency Buena Vista - 2	0							
			Kern County WA CVC	0							
		238.04	DRWD CVC	0							
			Tulare Co.	0							
			Lower Tule River	0							
			Fresno Co.	0							
			Pixley ID	0							
			Hacienda	0							
			DWR Wells	0							
	Check No. 28	238.11									
			2/ Arvin Edison Total:	0	0	0	0	0	0		
			Reach 12E Subtotal:	0	0	0	0	0	0		
13B	29	238.19	Kern Water Bank Inflow	0	0	0	0	0	0		
			Kern Water Bank Outflow	0							
		241.02	Kern River Intertie (inflow)	0							
		242.85	KCWA Buena Vista WSD - 7	0							
		243.09	KCWA Buena Vista WSD - 5	0							
		Check No. 29	Kern County Water Agency Buena Vista - 3	0							
		244.54									
	30	249.85	Kern County Water Agency Buena Vista - 4	0	87,589	0	0	0	0		
		Buena Vista Pumping Plant	250.99								
			KCWA Reach 13B Subtotal:	0	0	0	0	0	0		
14A	31	254.47	Kern County Water Agency West Kern - 2	0	51	0	51	0	0		
			Kern County Water Agency Wheeler Ridge-Maricopa - 2	51							

1/ Recovery of same contractors pump-in.

2/ Arvin Edison Contractors include Rag Gulch WD, Kern-Tulare WD, Fresno County, Hills Valley ID, Tri Valley WD, Tulare County, Lower Tule River ID, and Pixley ID.

**Table 22. Governor Edmund G. Brown California Aqueduct**

San Joaquin Field Division, Monthly Deliveries (Continued)

(In acre-feet)

**November 2008**

Reach No.	Operating Pool		Turnout	Total Diversions	Deliveries								
	Beginning and Ending				Table A	USBR	Recovery 1/	Other					
	No.	Structure	Mile										
14A	31	Check No. 31	256.14										
	32		258.61		Kern County Water Agency		150						
			260.44		Wheeler Ridge-Maricopa - 3								
			261.72		Kern County Water Agency								
					Wheeler Ridge-Maricopa - 4								
14B	33		KCWA Reach 14A Subtotal:	582		0	0	582	0				
			264.42	Kern County Water Agency			1,133						
			266.91	Wheeler Ridge-Maricopa - 5									
	34	Check No. 33	267.36	Kern County Water Agency									
			270.24	Wheeler Ridge-Maricopa - 6									
			271.27	Kern County Water Agency									
				Wheeler Ridge-Maricopa - 7									
				KCWA Reach 14B Total:	2,227		0	0	2,227	0			
14C	35		272.39	Kern County Water Agency			618						
			276.09	Wheeler Ridge-Maricopa - 8									
			277.30	Kern County Water Agency									
				Arvin-Edison WSD									
				Reach 14C Total:	1,006		0	0	1,006	0			
15A	36	Teerink Pumping Plant	278.13		94,379		215						
			279.02	Kern County Water Agency									
			280.06	Wheeler Ridge-Maricopa - 9A									
				Kern County Water Agency									
				Wheeler Ridge-Maricopa - 10									
				KCWA Reach 15A Total:	918		0	0	918	0			
16A	37	Chrisman Pumping Plant	280.36		90,022		19						
			282.06	Kern County Water Agency									
				Wheeler Ridge-Maricopa - 11									
			283.95		0								
	38		285.01	Kern County Water Agency			26						
			286.39	Wheeler Ridge-Maricopa - 12									
			287.06	Kern County Water Agency									
				Wheeler Ridge-Maricopa - 13A									
	39	Check No. 38	287.09	Kern County Water Agency			39						
			287.62	Wheeler Ridge-Maricopa - 13B									
			290.21		0								
17E	40		291.26	Kern County Water Agency			400						
			293.07	Wheeler Ridge-Maricopa - 14									
				Kern County Water Agency									
				Wheeler Ridge-Maricopa - 15									
				Kern County Water Agency			8						
				Tehachapi Cummings CWD									
				KCWA Reach 16A Subtotal:	853		0	0	853	0			
	Edmonston Pumping Plant	293.45			90,419								

1/ Recovery of same contractors pump-in.

**Table 23. Governor Edmund G. Brown California Aqueduct**

San Joaquin Field Division, Monthly Deliveries (Coastal Branch)

(In acre-feet)

**November 2008**

Reach No.	Operating Pool		Turnout	Total Diver-sions	Deliveries				
	Beginning and Ending				Table A	USBR	Recovery 1/	Other	
	No.	Structure	Mile						
31A	C-1	Coastal Branch Control	0.02		1,285				
		Las Perillas Pumping Plant	1.16		1,285				
	C-2		3.79	Green Valley Water District	0				
		Badger Hill Pumping Plant	4.27		1,469				
	C-3	Coastal Check No. 3	7.21						
	C-4		9.34	Castaic Lake WA (Devil's Den WD #1)	0				
		Coastal Check No. 4	9.34						
	C-5	Coastal Check No. 5	12.20						
	C-6		13.30	Kern County Water Agency Berrenda Mesa - 3	0				
			14.83	Kern County Water Agency Berrenda Mesa - 1	555			555	
				Kern County Water Agency Berrenda Mesa - PO	0				
		Devil's Den Pumping Plant	14.86		563				
				KCWA Reach 31A Subtotal:	555	0	0	555	
				KCWA Total:	7,796	0	0	7,796	
33A	C-7	Bluestone Pumping Plant	19.05		518				
	C-8	Polonio Pass Pumping Plant	26.54		573				
	C-9	Tank Site 1	27.81	(CCWA) Polonio Pass Treatment Plant	0				
	C-10	Shandon T.O.	38.23	Santa Barbara County (CCWA)	459				
		Tank Site 2	58.63	Central Coast:	0				
34	C-11	Chorro Valley T.O.	69.31	San Luis Obispo County (CCWA)	131				
		Energy Dissipater	78.12						
	Lopez T.O.		85.86	SLOCFC & WCD	0				
35	C-12			CCWA Total:	590	131	0	459	
		Guadalupe T.O.	102.70	SBCFC & WCD	0				
		Santa Maria T.O.	107.43	SBCFC & WCD	0				
		So. Cal. Water T.O.	109.20	SBCFC & WCD	0				
38				SBCFC & WCD Total:	0	0	0	0	
		Tank Site 5	115.42						

1/ Recovery of same contractors pump-in.

2/ Transfer of San Luis Obispo's 2008 Table A water to Santa Barbara County.

**Table 24. Southern Field Division Plant Data**

(in acre-feet)

November 2008

Date	West Branch						East Branch								East Branch Extension			
	Oso Pumping Plant	Warne Powerplant			Castaic Powerplant		Alamo Powerplant			Pearblossom Pumping Plant	Mojave Siphon Powerplant			Devil Canyon Powerplant Generation	Green Spot	Crafton Hills	Cherry Valley	
		Generation	Leakage	Gorman Crk. Improvement Channel	Generation 1/	Pumpback 1/	Generation	Bypass Through Plant	Tehachapi Afterbay Bypass		Generation	Leakage	Bypass Flume					
28	1	371	1,002	0	0	811	0	1,257	0	0	1,996	1,084	0	0	858	40	39	17
	2	2,342	1,078	0	0	1,126	699	2,546	0	0	2,148	1,946	0	0	895	9	0	15
	3	1,135	1,744	0	0	2,708	774	1,134	0	0	747	946	0	0	884	51	34	15
	4	1,463	2,059	0	0	2,928	1,522	540	0	0	579	561	0	0	808	58	48	26
	5	1,562	2,111	0	0	3,255	779	710	0	0	618	270	0	0	1,055	54	51	25
	6	1,716	2,052	0	0	3,169	572	681	0	0	583	696	0	0	774	53	51	16
	7	1,838	1,983	0	0	2,090	633	733	0	0	580	528	0	0	676	54	52	18
	8	1,982	2,128	0	0	874	858	568	0	0	582	549	0	0	656	26	25	19
	9	4,394	2,110	0	0	861	1,143	1,203	0	0	983	653	0	0	662	0	0	0
	10	1,710	2,104	0	0	1,995	800	670	0	0	557	437	0	0	665	53	51	16
	11	1,358	1,475	0	0	1,609	633	716	0	0	578	506	0	0	689	28	26	18
	12	1,268	1,482	0	0	3,088	0	1,215	0	0	907	740	0	0	635	54	51	27
	13	1,266	1,457	0	0	3,350	871	829	0	0	679	623	0	0	690	54	52	26
	14	1,268	997	0	0	3,554	786	589	0	0	504	438	0	0	762	52	51	17
	15	1,279	1,548	0	0	3,641	0	501	0	0	504	430	0	0	701	21	19	19
	16	3,409	1,355	0	0	3,029	28	2,879	0	0	2,598	2,567	0	0	731	27	23	16
	17	1,269	1,480	0	0	402	1,390	753	0	0	626	672	0	0	686	55	51	15
	18	951	1,403	0	0	779	757	785	0	0	711	602	0	0	649	54	52	27
	19	1,080	1,393	0	0	2,711	888	801	0	0	490	434	0	0	679	46	45	26
	20	1,139	1,808	0	0	2,121	1,344	601	0	0	490	439	0	0	680	40	38	16
	21	1,820	2,416	0	0	3,625	1,277	693	0	0	493	427	0	0	671	33	31	14
	22	1,856	2,783	0	0	2,348	0	642	0	0	373	432	0	0	676	21	19	13
	23	4,588	3,174	0	0	480	1,420	1,804	0	0	1,626	1,534	0	0	665	0	0	11
	24	2,312	3,026	0	0	6,591	160	626	0	0	617	379	0	0	660	41	35	10
	25	2,489	3,177	0	0	4,780	363	599	0	0	428	380	0	0	671	40	38	10
	26	2,699	2,497	0	0	4,619	0	538	0	0	428	379	0	0	688	45	38	6
	27	4,890	2,687	0	0	4,183	0	563	0	0	768	633	0	0	668	36	24	12
	28	2,334	1,508	0	0	2,829	0	1,578	0	0	1,462	1,710	0	0	605	35	28	11
	29	1,659	1,472	0	0	347	0	1,609	0	0	1,419	1,808	0	0	650	35	23	11
	30	1,811	1,395	0	0	861	0	2,316	0	0	2,043	1,746	0	0	687	35	23	10
Total	59,258	56,904	0	0	74,764	17,697	30,679	0	0	27,117	24,549	0	0	21,476	1,150	1,018	482	

1/ Values supplied by LADWP, not verified by DWR.

**Table 25. Pyramid Lake**

Daily Operation

Capacity: 171,200 ac-ft

(in acre-feet except as noted)

**November 2008**

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Inflow				Outflow				Computed Losses (-) And Gains (+)
				Project			Natural	Project			Natural	
				Castaic Powerplant Pumpback 1/	Warne Power-plant	Gorman Creek Improv. Channel	Stream Flow	Castaic Powerplant Generation 1/	Recreation Deliveries	To Piru Creek		
Oct 31	2572.76	163,224										
1	2572.81	163,287	63	0	1,002	0	70	811	0	28	0	-170
2	2573.62	164,308	1,021	699	1,078	0	93	1,126	0	99	0	376
3	2573.12	163,677	-631	774	1,744	0	35	2,708	0	54	5	-417
4	2573.85	164,599	922	1,522	2,059	0	27	2,928	0	27	23	292
5	2573.38	164,005	-594	779	2,111	0	24	3,255	0	24	41	-188
6	2572.84	163,325	-680	572	2,052	0	22	3,169	1	22	43	-91
7	2573.14	163,703	378	633	1,983	0	22	2,090	0	22	43	-105
8	2574.88	165,904	2,201	858	2,128	0	21	874	0	22	43	133
9	2576.84	168,408	2,504	1,143	2,110	0	21	861	0	22	43	156
10	2577.18	168,845	437	800	2,104	0	22	1,995	0	22	43	-429
11	2577.53	169,295	450	633	1,475	0	22	1,609	0	22	43	-6
12	2576.08	167,434	-1,861	0	1,482	0	21	3,088	0	22	43	-211
13	2575.14	166,235	-1,199	871	1,457	0	21	3,350	0	22	43	-133
14	2573.58	164,258	-1,977	786	997	0	20	3,554	1	22	43	-160
15	2571.84	162,070	-2,188	0	1,548	0	19	3,641	0	22	43	-49
16	2570.87	160,859	-1,211	28	1,355	0	19	3,029	0	22	43	481
17	2572.85	163,338	2,479	1,390	1,480	0	20	402	0	22	43	56
18	2573.93	164,700	1,362	757	1,403	0	20	779	0	22	43	26
19	2573.49	164,144	-556	888	1,393	0	20	2,711	0	22	43	-81
20	2574.96	165,996	1,852	1,344	1,808	0	20	2,121	0	22	43	866
21	2574.23	165,080	-916	1,277	2,416	0	21	3,625	0	22	43	-940
22	2574.47	165,384	304	0	2,783	0	21	2,348	0	21	43	-88
23	2577.96	169,850	4,466	1,420	3,174	0	21	480	0	21	42	394
24	2574.82	165,828	-4,022	160	3,026	0	22	6,591	0	22	41	-576
25	2573.62	164,308	-1,520	363	3,177	0	25	4,780	0	25	38	-242
26	2572.16	162,471	-1,837	0	2,497	0	209	4,619	0	75	0	151
27	2570.67	160,610	-1,861	0	2,687	0	125	4,183	0	198	0	-292
28	2569.16	158,739	-1,871	0	1,508	0	62	2,829	0	207	0	-405
29	2570.46	160,349	1,610	0	1,472	0	41	347	0	40	98	582
30	2570.87	160,859	510	0	1,395	0	37	861	0	62	77	78
Total			-2,365	17,697	56,904	0	1,143	74,764	2	1,255	1,096	-992

1/ Values supplied by LADWP, not verified by DWR.

**Table 26. Elderberry Forebay**

Daily Operation

(in acre-feet except as noted)

Capacity: 32,476 ac-ft

**November 2008**

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Inflow		Outflow			Computed Losses (-) And Gains (+)	
				Castaic Powerplant Generation 1/	Natural	Castaic Powerplant Pumpback 1/	To Castaic Lake			
				Natural	Project 1/					
Oct 31	1514.24	20,853								
1	1516.37	21,720	867	811	0	0	0	0	56	
2	1517.22	22,071	351	1,126	0	699	0	0	-76	
3	1516.35	21,712	-359	2,708	0	774	0	2,294	1	
4	1513.22	20,445	-1,267	2,928	0	1,522	0	2,673	0	
5	1512.89	20,313	-132	3,255	0	779	0	2,607	-1	
6	1512.62	20,206	-107	3,169	0	572	0	2,704	0	
7	1510.58	19,408	-798	2,090	0	633	0	2,255	0	
8	1510.58	19,408	0	874	0	858	0	0	-16	
9	1509.60	19,031	-377	861	0	1,143	0	0	-95	
10	1507.87	18,374	-657	1,995	0	800	0	1,852	0	
11	1510.34	19,315	941	1,609	0	633	0	0	-35	
12	1511.85	19,903	588	3,088	0	0	0	2,500	0	
13	1509.67	19,057	-846	3,350	0	871	0	3,324	-1	
14	1510.77	19,482	425	3,554	0	786	0	2,343	0	
15	1519.16	22,884	3,402	3,641	0	0	0	0	-239	
16	1526.02	25,870	2,986	3,029	0	28	0	0	-15	
17	1515.85	21,507	-4,363	402	0	1,390	0	3,375	0	
18	1511.80	19,883	-1,624	779	0	757	0	1,645	-1	
19	1516.25	21,671	1,788	2,711	0	888	0	0	-35	
20	1512.76	20,262	-1,409	2,121	0	1,344	0	2,185	-1	
21	1510.20	19,261	-1,001	3,625	0	1,277	0	3,350	1	
22	1511.52	19,774	513	2,348	0	0	0	1,831	-4	
23	1508.94	18,779	-995	480	0	1,420	0	0	-55	
24	1513.40	20,516	1,737	6,591	0	160	0	4,694	0	
25	1512.99	20,353	-163	4,780	0	363	0	4,585	5	
26	1517.19	22,059	1,706	4,619	0	0	0	2,913	0	
27	1516.67	21,844	-215	4,183	0	0	0	4,374	-24	
28	1513.05	20,377	-1,467	2,829	0	0	0	4,320	24	
29	1509.76	19,092	-1,285	347	0	0	0	1,633	1	
30	1511.67	19,832	740	861	0	0	0	0	-121	
Total		-1,021	74,764	0	17,697	0	57,457	-631		

1/ Values supplied by LADWP, not verified by DWR.

**Table 27. Castaic Lake**

Daily Operation

(in acre-feet except as noted)

Capacity: 323,699 ac-ft

**November 2008**

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Inflow			Outflow		Computed Losses (-) And Gains (+)	
				From Elderberry Forebay 1/		Natural	Deliveries	Released To Castaic Lagoon		
				Natural	Project					
Oct 31	1468.38	228,972								
1	1467.38	227,136	-1,836	0	0	0	2,108	0	272	
2	1466.37	225,289	-1,847	0	0	0	1,813	0	-34	
3	1466.90	226,257	968	0	2,294	0	1,572	0	246	
4	1467.42	227,209	952	0	2,673	0	1,663	0	-58	
5	1467.93	228,145	936	0	2,607	0	1,607	0	-64	
6	1467.19	226,771	-1,374	0	2,704	0	1,544	0	-2,534	
7	1467.17	226,736	-35	0	2,255	0	1,568	0	-722	
8	1467.94	228,163	1,427	0	0	0	1,614	0	3,041	
9	1467.13	226,678	-1,485	0	0	0	1,490	0	5	
10	1467.26	226,916	238	0	1,852	0	1,493	0	-121	
11	1466.42	225,380	-1,536	0	0	0	1,484	0	-52	
12	1467.01	226,458	1,078	0	2,500	0	1,515	0	93	
13	1467.45	227,264	806	0	3,324	0	1,560	0	-958	
14	1468.30	228,825	1,561	0	2,343	0	1,666	0	884	
15	1467.38	227,136	-1,689	0	0	1	1,644	0	-46	
16	1466.46	225,453	-1,683	0	0	1	1,729	0	45	
17	1467.17	226,751	1,298	0	3,375	1	1,835	0	-243	
18	1466.94	226,330	-421	0	1,645	0	1,980	0	-86	
19	1465.86	224,360	-1,970	0	0	0	2,034	0	64	
20	1465.97	224,560	200	0	2,185	0	1,968	0	-17	
21	1466.77	226,020	1,460	0	3,350	0	1,939	0	49	
22	1467.12	226,653	633	0	1,831	0	1,962	0	764	
23	1467.07	226,557	-96	0	0	0	1,961	0	1,865	
24	1467.02	226,459	-98	0	4,694	1	1,959	0	-2,834	
25	1468.66	229,488	3,029	0	4,585	1	1,812	0	255	
26	1469.61	231,242	1,754	0	2,913	5	1,465	0	301	
27	1471.57	234,883	3,641	0	4,374	3	1,220	0	484	
28	1473.13	237,803	2,920	0	4,320	1	1,325	0	-76	
29	1473.46	238,423	620	0	1,633	1	1,260	0	246	
30	1472.74	237,071	-1,352	0	0	1	1,233	0	-120	
Total				8,099	0	57,457	16	50,023	0	649

1/ Values supplied by LADWP, not verified by DWR.

**Table 28. Governor Edmund G. Brown California Aqueduct**

Southern Field Division, Monthly Deliveries (West Branch)

(In acre-feet)

**November 2008**

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries					
	Beginning and Ending		No.			Table A	Recreation	Dry Purchase	Pool A	Other	
	No.	Structure	Mile								
29A	42	Oso Pumping Plant	1.49		59,258						
29F	W2	Quail Lake	5.02	Antelope Valley-East Kern Water Agency	Removed	1,096	2				
		Quail Lake Embankment	7.82	Antelope Valley-East Kern Water Agency	Stub						
29G		Warne Power Plant	14.07	(No flow through Gorman Creek Imp. Channel)	56,904						
29H	W3	Pyramid Lake		USFS		1,096	2				
				Pyramid Recreation (T300)	2						
		Pyramid Dam	17.10	California State Park Piru Fish (T300)	0						
		Castaic Power Plant	25.82	( 17,697 AF pumpback ) 2/	74,764						
29J	W4	Elderberry Forebay				15					
		Forebay Dam	28.12								
30 1/	W5	Castaic Lake		California State Park		18,132	15	822	1,689	3/ 26,880	
		Castaic Dam	31.47	Castaic Lake Recreation (T301)	15						
		Castaic Lake Outlet	31.55	MWDSC 78" & 132" (T302)	47,523						
				Castaic Lake WA 18", 24" & 54" (T303)	362						
				Castaic Lake WA Rio Vista T.P. (T304)	1,969						
				MWD-Ventura Co. WPD (T302)	154						
				Releases to Lagoon	0						
				Reach 30 Subtotal:	50,023						
		Castaic Lagoon		California State Park Recreation to Lagoon (T353)	0	19,475	15	864	1,689	27,980	
		Castaic Lagoon Outlet	31.87		180						

1/ Reach 30 actually terminates at mile 31.50. It is shown here as including the outlet works at mile 31.55.

All deliveries from the outlet works and from the Lagoon are billed to Reach 30.

2/ Value Supplied by LADWP, not verified by DWR

3/ Includes 953 AF of Kern Delta Recovery, 19,971 AF of Semitropic Recovery, and 5,956 AF of Arvin Edison Recovery.

4/ Conveyance of non-project water from Castaic Lake WA to Kern County WA.

**Table 29. Silverwood Lake**

Daily Operation

(in acre-feet except as noted)

Capacity: 74,970 ac-ft

**November 2008**

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Inflow			Outflow					Computed Losses (-) And Gains (+)	Las Flores Ranch Exchange 1/	
							Project		Del. To Mojave W.A.	Natural To Mojave River				
Mojave Siphon Power-plant	Mojave Bypass Flume	Natural Stream Flow	Delivered to CLAWA	Rec.	San Bernardino Tunnel									
Oct 31	3349.07	69,304												
1	3349.38	69,594	290	1,084	0	0	4	0	858	0	1	69	6	
2	3350.39	70,544	950	1,946	0	0	4	0	895	0	0	-97	6	
3	3350.47	70,620	76	946	0	0	2	1	884	0	0	17	6	
4	3350.16	70,327	-293	561	0	0	2	0	808	0	1	-43	6	
5	3349.24	69,463	-864	270	0	0	4	0	1,055	0	0	-75	6	
6	3349.27	69,491	28	696	0	0	4	0	774	0	0	110	6	
7	3349.01	69,248	-243	528	0	0	3	0	676	0	1	-91	6	
8	3348.56	68,828	-420	549	0	1	3	0	656	0	0	-311	6	
9	3348.65	68,912	84	653	0	0	2	1	662	0	0	96	6	
10	3348.42	68,698	-214	437	0	0	3	0	665	0	1	18	6	
11	3348.23	68,521	-177	506	0	0	4	0	689	0	0	10	6	
12	3348.31	68,595	74	740	0	1	3	0	635	0	0	-29	6	
13	3348.28	68,567	-28	623	0	0	3	0	690	0	1	43	6	
14	3347.86	68,177	-390	438	0	0	3	0	762	0	0	-63	6	
15	3347.64	67,974	-203	430	0	0	3	0	701	0	0	71	6	
16	3349.52	69,725	1,751	2,567	0	0	3	0	731	0	1	-81	6	
17	3349.43	69,641	-84	672	0	1	3	0	686	0	0	-68	6	
18	3349.49	69,697	56	602	0	0	3	0	649	0	0	106	6	
19	3349.27	69,491	-206	434	0	0	2	1	679	0	1	43	6	
20	3348.90	69,145	-346	439	0	0	3	0	680	0	0	-102	6	
21	3348.59	68,856	-289	427	0	1	2	0	671	0	0	-44	6	
22	3348.45	68,725	-131	432	0	0	1	0	676	0	1	115	6	
23	3349.24	69,463	738	1,534	0	0	2	0	665	0	0	-129	6	
24	3348.93	69,173	-290	379	0	0	4	0	660	0	0	-5	6	
25	3348.68	68,940	-233	380	0	1	2	0	671	0	1	60	6	
26	3348.45	68,725	-215	379	0	0	3	0	688	0	0	97	6	
27	3348.48	68,753	28	633	0	0	2	1	668	0	0	66	6	
28	3349.66	69,857	1,104	1,710	0	1	3	0	605	0	1	3	6	
29	3350.87	70,998	1,141	1,808	0	1	3	0	650	0	0	-15	5	
30	3352.08	72,143	1,145	1,746	0	1	1	0	687	0	0	86	5	
Total				2,839	24,549	0	7	84	4	21,476	0	10	-143	178

1/ Project water delivered from Mojave Siphon in exchange for like amount of Natural Streamflow.

**Table 30. Lake Perris**

Daily Operation

(in acre-feet except as noted)

Capacity: 131,452 ac-ft

**November 2008**

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Inflow 1/	Outflow 2/	Computed Losses (-) Gains (+) 1/
Oct 31	1562.64	73,803				
1	1562.66	73,840	37		6	
2	1562.72	73,953	113		6	
3	1562.61	73,747	-206		6	
4	1562.61	73,747	0		6	
5	1562.55	73,634	-113		6	
6	1562.55	73,634	0		7	
7	1562.61	73,747	113		6	
8	1562.45	73,447	-300		6	
9	1562.61	73,747	300		6	
10	1562.53	73,597	-150		6	
11	1562.39	73,335	-262		6	
12	1562.50	73,541	206		6	
13	1562.45	73,447	-94		6	
14	1562.47	73,485	38		6	
15	1562.42	73,391	-94		7	
16	1562.42	73,391	0		6	
17	1562.31	73,186	-205		6	
18	1562.28	73,129	-57		6	
19	1562.31	73,186	57		6	
20	1562.45	73,447	261		7	
21	1562.36	73,279	-168		7	
22	1562.45	73,447	168		7	
23	1562.42	73,391	-56		7	
24	1562.47	73,485	94		7	
25	1562.36	73,279	-206		7	
26	1562.66	73,840	561		7	
27	1562.64	73,803	-37		7	
28	1562.77	74,047	244		7	
29	1562.55	73,634	-413		6	
30	1562.75	74,009	375		6	
Total			206	1463	190	-1067

1/ Readings are not taken on a daily basis. End of month only.

2/ Includes deliveries to MWD from Reach 28J and recreation water to California State Park at Lake Perris.

**Table 31. Governor Edmund G. Brown California Aqueduct**

Southern Field Division, Monthly Deliveries (East Branch)

(In acre-feet)

**November 2008**

Reach No.	Operating Pool		Turnout	Total Diversions	Deliveries					
	Beginning and Ending				Table A	Recreation	Dry Purchase	Pool A	Other	
	No.	Structure	Mile							
17E	40	Edmonston Pumping Plant	293.45	90,419						
	41		298.65		KCWA Tej.-Cas	Stub				
17F		Check No. 41	303.41							
18A	42		304.99	0	AVEK WA-Temp for TEA construction (T389)					
		Check No. 42	304.99							
18A	43	Alamo Powerplant	305.73	30,679	(Includes 30,679 AF generation, 0 AF plant bypass, and 0 AF Tehachapi bypass)					
			306.71		AVEK 305th Street West (T287)	0				
19	44		308.05	0	AVEK 294th Street West (T267)	0				
		Check No. 43	309.70							
19	44		311.84	0	LADWP Connection	0				
			313.50		AVEK 245th Street West (T269)	0				
19	45	Check No. 44	314.81	0						
			314.93		AVEK 235th Street West (T270)	0				
19	45		315.57	0	AVEK 225th Street West (T271)	0				
		Check No. 45	319.74							
19	46		323.19	411	Antelope Valley-East Kern WA Fairmont (T272)	411	44	0	0	
					Mojave Water Agency Fairmont (T272)	44				
19	46	Check No. 46	323.84	44	Reach 19 Total:	44				
20A	47	Check No. 47	326.77							
20A	48		326.91	53	Antelope Valley-East Kern WA Willow Springs (T273)	53				
			329.65		Antelope Valley-East Kern WA 120th Street West	Removed				
20A	49	Check No. 48	330.82							
		Check No. 49	335.93							
20B	50		336.73	1,090	Antelope Valley-East Kern WA Quartz Hill (T274)	1,090				
20B			339.68		Antelope Valley-East Kern WA Rancho Vista (T275)	83				
20B	50		340.92	0	AVEK WA-Temp (T387)	0				
		Check No. 50	341.51							
20B	51		342.06	0	AVEK WA-Temp (T386)	0				
		Check No. 51	342.07							
20B	52		342.95	0	Antelope Valley-East Kern WA 30th Street West (T414)	0				
		Check No. 52	343.74							
20B	53		346.98	1,371	Palmdale WD (T276) Temp.	1,371				
			348.14		Antelope Valley-East Kern WA Acton Treatment Plant (T277)	30				
21	53	Check No. 53	348.17							
21			349.52		Palmdale WD (T394) Temp.	0				
21	54	Check No. 54	350.25							
	55	Check No. 55	352.70							
21	56	Check No. 56	354.76							
	57		354.97	0	AVEK WA-Delivered through Littlerock Creek ID (T278)	0				
22A	57		354.97		Palmdale WD (T276)	0				
22A			354.97		Palmdale WD (T391)	0				
22A	58	Check No. 57	356.93							
			357.60	24	AVEK 95th Street East (T279)	24				
22A			357.72		AVEK 96th Street East (T280)	10				
			359.76		AVEK East Side Treatment Plant (T281)	163				

1/ General Conveyance of Kern County WA non-project water - "Nickel Water".

2/ Butte County Table A Transfer water to Palmdale WD.

**Table 31. Governor Edmund G. Brown California Aqueduct**

Southern Field Division, Monthly Deliveries (East Branch, Continued)

(In acre-feet)

**November 2008**

Reach No.	Operating Pool		Turnout	Total Diversions	Deliveries					
	Beginning and Ending				Table A	Recreation	Dry Purchase	Pool A	Other	
	No.	Structure	Mile							
22B	58	Pearblossom Pumping Plant	360.61		27,117	325	2,071	1/ 178	2/ 84	
	59	Check No. 59	366.09							
	60		366.50	AVEK Big Rock Siphon (T368)	0					
		Check No. 60	373.94							
	61	Check No. 61	379.00							
	62	Check No. 62	384.26							
	63		389.20	Mojave Water Agency White Road 24" & 42" (T282)	325					
	64	Check No. 64	395.10							
	65	Check No. 65	400.32							
	66		401.10	Mojave Water Agency Morongo 24" & 42" (T284)	2,071					
23		Check No. 66	403.41							
		Mojave Siphon	405.58	Las Flores Ranch Exchange	178					
24	67	Mojave Siphon Powerplant	405.65		24,549	4	21,476	51	22	
				MWA CS DAM (T288)	0					
			407.65	California State Park						
				Silverwood (T288)	4					
		Silverwood Lake		Crestline-Lake Arrowhead WA						
			407.70	State Project Water (T289)	84					
				Non-Project Water (T289)	0					
		San Bernardino Intake Tunnel			21,476					
		Devil Canyon Powerplant	412.73		21,476					
				MWD-Rialto (T292)	0					
26A	68	Devil Canyon Afterbay Control Structures		MWD-Rialto (T293)	7,542	7,542	3/ 5,289	51	22	
				Desert Water Agency Transfer (T293)	51					
				Coachella Valley WD Transfer (T293)	22					
				MWD EBX-1 (T290)	0					
				MWD EBX-1 (T291)	0					
				East Branch Extension	5,971					
				San Bernardino Valley MWD	29					
28G			425.46							
28H	69	Santa Ana Valley Pipeline	433.06	MWD-SC Box Springs (T295)	5,987	5,987	680	172	18	
			440.05	MWD-SC Perris Bypass Pipeline (T296)	680					
28J	69	Lake Perris	442.00	MWD-SC (T297)	172	32,714	0	895	1,689	
				MWD-SC 54" & 78" (T299)	18					
				Calif. State Park						
				Lake Perris Recreation (T298)	0					
				MWD Total:	62,178				26,880	

1/ Project water delivered from Mojave Siphon in exchange for like amount of natural stream flow.

2/ Table A Carryover under Article 56C.

3/ Includes 318 AF to San Gabriel Valley MWD, 4,472 AF to San Bernardino Valley MWD, and 499 AF to San Gorgonio Pass WA.

4/ Longterm exchange from Dudley Ridge WD to San Gabriel Valley MWD.

**Table 32. Water Quality At Selected SWP Locations**

November 2008

Constituent	Units	Thermalito Afterbay At Outlet	North Bay Aqueduct Barker Slough Pumping Plant	Delta Mendota Canal At McCabe Rd.	California Aqueduct					
					Banks Pumping Plant	O'Neill Forebay Outlet (Check 13)	Kettleman City (Check 21)	Near Hwy 119 (Check 29)	Tehachapi Afterbay (Check 41)	Devil Canyon Headworks
Alkalinity	mg/l as CaCO <sub>3</sub>	50	77	76	78	81	84	74	80	79
Antimony	mg/l	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NR	NR
Arsenic	mg/l	<0.001	0.002	0.002	0.002	0.002	0.003	0.006	0.005	0.005
Beryllium	mg/l	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Boron	mg/l	<0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2
Bromide	mg/l	<0.01	0.03	0.34	0.36	0.35	0.37	0.21	0.21	0.25
Calcium	mg/l	11	14	19	20	21	19	31	27	26
Chloride	mg/l as C	1.0	13.0	89.0	100.0	99.0	98.0	54.0	62.0	76.0
Chromium	mg/l as C	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.0	0.0	0.0
Copper	mg/l	<0.001	0	0	0	0	0	<0.001	0	0
Fluoride	mg/l	<0.1	NR	NR	NR	NR	NR	NR	NR	NR
Hardness	mg/l	47.000	76.000	101.000	108.000	110.000	105.000	87.000	92.000	102.000
Iron	mg/l	0.0	0.0	0.0	0.0	0.0	<0.005	<0.005	<0.005	0.0
Lead	mg/l as CaCO <sub>3</sub>	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Magnesium	mg/l	5.000	10.000	13.000	14.000	14.000	14.000	2.000	6.000	9.000
Manganese	mg/l	<0.005	0.007	<0.005	0.019	<0.005	0.005	<0.005	<0.005	0.005
Nitrate + Nitrite	mg/l	<0.01	0	NR	1	1	0	2	1	1
Organic Carbon, Dissolved	mg/l	NR	1.900	2.300	2.100	2.300	2.500	0.500	1.100	1.300
Organic Carbon, Total	mg/l as N	NR	2.00	2.40	2.20	2.70	2.60	0.60	1.10	2.00
Phosphate-Ortho	mg/l as P	<0.01	0.05	NR	0.06	0.06	0.07	NR	0.01	0.04
Phosphorus-Total	mg/l	0	0.15	NR	0.09	0.09	0.09	0.01	0.02	0.08
Selenium	mg/l	<0.001	<0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
Sodium	mg/l	5	17	57	65	65	62	51	53	61
Specific Conductance	µS/cm	102	218	501	529	546	530	432	471	529
Sulfate	mg/l	2	14	32	36	37	33	46	40	48
Total Dissolved Solids	mg/l	58	126	277	298	300	292	258	261	293
Turbidity	NTU	4	42	6	2	3	<1	1	2	<1
Zinc	mg/l	0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005

mg/l milligrams per liter

µg/l micrograms per liter

µS/cm microSiemens per centimeter

NR - Not Reported

NTU - nephelometric turbidity units

**Table 33. Water Quality At Selected Delta Stations**

November 2008

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Date	Antioch Tides (feet above mean sea level)		Flow In CFS		Electrical Conductivity in millisiemens/cm									Cl in mg/l	
			Net Delta Outflow Index		Rio Vista	Antioch	Chippis Island	Emmaton		Jersey Point		Clifton Court	Cache Slough	Delta Mendota Canal	
	Highest High Tide	Actual High Half Tide	Mean Daily	Monthly Average				md	md	md	14dm	md	14dm	md	md
1	6.41	4.40	6,786	3,253	4,011	7.79	15.14	4.15	3.34	2.79	1.83	0.51	0.82	0.27	126
2	6.13	4.54	13,164	3,612	6,580	7.19	14.62	3.71	3.31	2.43	1.87	0.51	0.38	0.26	127
3	6.27	4.44	17,007	4,095	8,969	6.36	13.63	3.41	3.32	2.29	1.91	0.51	0.47	0.27	127
4	5.56	4.39	15,254	4,489	8,762	5.23	12.87	2.49	3.32	1.85	1.94	0.54	0.59	0.28	126
5	4.66	3.76	14,681	4,844	9,272	4.18	9.37	1.09	3.24	1.31	1.94	0.56	0.62	0.29	126
6	4.45	3.33	12,818	5,133	8,836	3.53	8.70	0.00	3.28	1.09	1.92	0.54	0.61	0.27	127
7	4.71	3.36	6,727	5,223	7,010	3.57	9.30	0.92	3.14	1.12	1.89	0.52	0.66	0.26	122
8	4.90	3.40	5,292	5,278	6,205	4.14	0.00	1.80	3.04	1.22	1.87	0.53	0.71	0.25	118
9	5.10	3.44	3,883	5,303	5,244	5.05	0.00	1.99	2.95	1.49	1.85	0.55	0.74	0.24	118
10	5.49	3.51	4,101	5,330	7,066	4.44	11.18	1.61	2.78	1.33	1.81	0.00	0.80	0.26	110
11	5.66	3.53	4,358	5,360	8,262	4.17	10.70	1.55	2.62	1.17	1.76	0.55	0.81	0.26	129
12	5.85	3.54	3,826	5,351	7,363	4.33	10.70	1.73	2.49	1.42	1.73	0.55	0.81	0.25	104
13	6.07	3.65	3,470	5,340	7,037	4.64	11.27	1.94	2.35	1.54	1.68	0.56	0.75	0.25	99
14	6.25	3.84	3,397	5,326	6,850	5.19	11.76	2.39	2.21	1.75	1.63	0.58	0.75	0.25	98
15	6.26	3.92	3,012	5,315	6,580	5.45	12.34	2.65	2.10	1.90	1.56	0.57	0.75	0.25	106
16	6.17	3.99	2,980	5,352	6,545	5.73	12.59	2.87	2.03	2.02	1.51	0.57	0.76	0.25	111
17	5.80	3.86	3,527	5,419	6,447	5.61	12.17	2.60	1.97	1.95	1.49	0.00	0.77	0.25	88
18	5.48	3.76	3,679	5,500	6,348	5.42	12.02	2.62	1.98	1.88	1.49	0.61	0.76	0.26	90
19	5.13	3.74	4,251	5,559	6,049	5.25	12.35	2.76	2.11	1.81	1.53	0.60	0.77	0.26	91
20	5.00	3.48	4,665	5,615	5,594	4.75	11.43	2.02	2.10	1.63	1.57	0.57	0.79	0.25	88
21	4.95	3.24	3,848	5,640	5,685	4.30	10.53	1.69	2.16	1.52	1.59	0.00	0.80	0.26	87
22	5.13	3.28	3,062	5,647	5,181	4.54	10.84	1.97	2.17	1.59	1.62	0.57	0.81	0.25	109
23	5.30	3.40	3,277	5,657	4,870	4.87	11.38	2.20	2.18	1.69	1.64	0.56	0.80	0.26	103
24	5.80	3.74	3,158	5,669	4,575	5.66	12.50	2.91	2.28	1.96	1.68	0.00	0.79	0.25	96
25	5.96	3.92	3,780	5,707	4,450	6.25	13.54	3.51	2.42	2.18	1.75	0.00	0.79	0.27	94
26	6.23	4.11	4,597	5,767	4,805	6.70	14.42	3.87	2.57	2.39	1.82	0.60	0.78	0.28	96
27	6.27	4.20	6,114	5,885	4,963	6.67	14.50	4.15	2.73	2.32	1.88	0.62	0.79	0.28	106
28	5.92	3.98	6,179	5,984	5,007	5.94	13.28	3.70	2.82	2.06	1.90	0.64	0.82	0.29	104
29	5.85	3.90	6,731	6,105	5,484	5.55	12.63	3.51	2.88	1.93	1.90	0.69	0.81	0.30	96
30	5.71	3.87	6,593	6,141	5,416	5.45	12.33	3.39	2.92	1.85	1.91	0.00	0.82	0.31	96

Clifton Court Cl(mg/l)=200X EC - 25

e = Estimated

N.R. = No Record.

N.C. = Not computed due to insufficient data.

f = Excess Delta conditions with fish concerns.

r = Excess delta conditions with export/inflow ratio concerns.

s = Balanced water conditions with storage withdrawals.

dm = Daily Mean

md = Mean Daily

**Table 34. Pesticides, Herbicides, and Other Organic Substances Detected In the SWP**

**November 2008**

Sampling Location	Sample Date 1/	Chemical Detected	Concentration µg/l 2/
North Bay Aqueduct At Barker Slough Pumping Plant	September 17, 2008	Atrazine	0.11
California Aqueduct At Banks Pumping Plant	June 18, 2008	Diuron Metolachlor Simazine	0.25 0.20 0.02
O'Niell Forebay Outlet Check 13	June 18, 2008	Diuron Simazine	0.27 0.03
Delta Mendota Canal At McCabe Road	June 18, 2008	Diuron Metolachlor	0.29 0.10
California Aqueduct Near Kettleman City (Check 21)	June 17, 2008	Diuron Simazine	0.27 0.03
California Aqueduct At Near Highway 119 (Check 29)	June 17, 2008	Simazine	0.03
California Aqueduct at Tehachapi Afterbay (Check 41)	June 18, 2008	Diuron Simazine	0.25 0.03
California Aqueduct At Devil Canyon Headworks	June 18, 2008	Diuron Simazine	0.40 0.10

1/ Locations are normally sampled during March, June, and September. Monthly reports will include data for the month in which samples were most recently taken.

2/ Micrograms per liter.

**Table 35. Oroville and Delta Field Divisions Energy Data**

(in kWh)

**November 2008**

Date	Oroville Thermalito Complex		Barker Slough Pumping Plant	Cordelia Pumping Plant Load	Banks Pumping Plant		South Bay Pumping Plant Load	Del Valle Pumping Plant Load
	Generation	Load			Total Load	SWP Load		
1	1,712,950	0	28,080	22,630	243,090	243,090	256,760	730
2	2,134,820	170	28,540	20,520	256,210	256,210	264,750	910
3	2,205,620	0	30,300	22,830	269,200	269,200	267,430	940
4	1,971,490	0	31,600	29,900	1,105,340	1,105,340	252,390	930
5	1,680,490	0	32,840	33,310	1,109,080	1,109,080	216,280	940
6	2,002,030	2,040	30,490	32,500	1,671,750	1,671,750	204,270	950
7	944,330	1,990	28,920	29,640	1,530,530	1,530,530	222,490	900
8	1,037,820	2,310	28,120	31,080	1,652,880	1,652,880	217,570	960
9	978,770	2,330	26,740	30,070	1,361,690	1,361,690	240,270	950
10	956,210	340	29,420	36,840	1,348,370	1,348,370	222,210	950
11	392,930	6,410	27,840	34,100	1,143,170	1,143,170	190,340	940
12	1,637,670	4,360	30,000	36,700	1,170,610	1,170,610	150,320	940
13	2,890,220	0	32,990	39,480	2,163,840	2,163,840	66,450	880
14	3,211,550	0	32,340	37,220	1,699,460	1,699,460	2,420	760
15	2,802,000	0	33,090	40,910	1,698,090	1,698,090	1,310	760
16	1,896,260	0	31,310	38,900	1,651,550	1,651,550	1,020	840
17	3,507,510	0	29,680	37,310	1,619,870	1,619,870	180	440
18	1,515,060	0	35,450	40,690	1,637,900	1,637,900	0	540
19	1,342,800	0	40,420	44,350	1,180,720	1,180,720	0	1,000
20	1,415,890	2,460	40,890	42,720	1,125,130	1,125,130	0	940
21	1,071,580	1,430	41,920	43,250	1,114,300	1,114,300	270	1,000
22	927,820	0	29,070	31,890	1,104,010	1,104,010	910	950
23	1,138,190	370	29,500	33,570	1,106,690	1,106,690	910	940
24	1,202,600	2,760	32,410	36,470	1,046,760	1,046,760	1,010	940
25	1,292,310	1,680	28,730	33,860	1,061,140	1,061,140	1,070	930
26	1,236,790	2,740	30,510	36,550	906,270	906,270	1,080	910
27	1,016,170	0	24,410	34,180	870,810	870,810	1,040	900
28	1,048,360	4,010	18,980	27,540	831,120	831,120	1,090	890
29	1,193,190	4,030	18,460	30,370	836,090	836,090	1,060	870
30	46,450	9,190	19,210	29,140	832,270	832,270	1,040	870
Total	46,409,880	48,620	902,260	1,018,520	35,347,940	35,347,940	2,785,940	26,400

**Table 36. San Luis Field Division Energy Data**

(in kWh)

**November 2008**

Date	Dos Amigos Pumping Plant		Gianelli Pumping-Generating Plant			
	Total Load	SWP Load 1/	Total Generation	SWP Generation 1/	Total Load	SWP Load 1/
1	146,840	-45,160	0	0	314,520	14,520
2	558,020	408,020	170,880	170,880	524,520	-480
3	90,320	-53,680	0	0	606,030	306,030
4	171,840	27,840	0	0	1,069,040	769,040
5	217,920	73,920	0	0	1,310,870	560,870
6	117,650	21,650	0	0	1,556,100	806,100
7	285,720	189,720	0	0	1,700,010	848,010
8	229,100	133,100	0	0	1,339,490	487,490
9	619,480	523,480	0	0	1,045,780	51,780
10	218,790	122,790	0	0	1,192,820	198,820
11	209,480	113,480	0	0	1,474,450	424,450
12	182,800	86,800	0	0	1,477,330	577,330
13	303,270	207,270	0	0	1,283,620	833,620
14	173,750	101,750	0	0	2,006,960	1,406,960
15	171,240	99,240	0	0	1,942,020	1,342,020
16	559,030	487,030	0	0	1,390,210	790,210
17	200,310	128,310	0	0	1,591,030	991,030
18	121,420	49,420	0	0	2,135,440	1,235,440
19	138,960	66,960	0	0	1,151,870	851,870
20	161,590	89,590	0	0	1,078,680	528,680
21	251,720	179,720	0	0	797,210	347,210
22	222,880	150,880	0	0	1,433,320	508,320
23	795,530	723,530	0	0	1,137,610	162,610
24	320,300	248,300	0	0	930,370	330,370
25	306,570	234,570	0	0	738,850	288,850
26	307,130	235,130	0	0	451,460	301,460
27	587,900	515,900	0	0	449,900	299,900
28	281,820	209,820	0	0	309,880	159,880
29	337,500	265,500	0	0	189,650	189,650
30	523,210	451,210	0	0	605,200	605,200
Total	8,812,090	6,046,090	170,880	170,880	33,234,240	16,217,240

1/ Negative values may appear in SWP columns and indicate a mismatch of scheduled CVP energy and actual pumping; adjustments to SWP water shares are made to balance the mismatch.

**Table 37. San Joaquin Field Division Pumping Plant Energy Load Data**

**November 2008**

(in kWh)

Date	Coastal Branch					California Aqueduct			
	Las Perillas	Badger Hill	Devil's Den	Bluestone	Polonio	Buena Vista	Teerink	Chrisman	Edmonston
1	0	1,720	0	910	0	455,930	470,740	1,020,790	3,686,260
2	0	1,760	0	2,010	0	1,178,450	1,420,920	3,185,500	12,072,000
3	0	1,650	470	2,060	790	461,860	522,070	1,124,100	4,018,280
4	0	1,650	1,480	1,500	1,350	505,430	580,930	1,282,970	4,822,900
5	0	1,430	1,380	2,110	1,920	539,750	652,920	1,466,510	5,159,210
6	0	1,390	1,170	1,840	2,000	577,690	663,440	1,439,050	5,338,520
7	0	510	1,220	1,660	2,010	560,040	710,250	1,542,780	5,590,270
8	0	0	1,240	1,630	1,960	619,840	679,360	1,519,070	5,580,200
9	0	0	1,210	1,570	1,930	1,253,090	1,498,550	3,339,460	12,526,510
10	0	0	1,380	1,650	1,970	603,460	714,460	1,572,430	5,660,360
11	0	0	1,460	1,630	1,860	568,070	591,520	1,288,690	4,837,620
12	0	0	1,510	1,680	1,860	491,180	584,870	1,256,560	4,688,360
13	270	230	1,500	5,250	3,540	515,610	580,100	1,248,960	4,583,410
14	1,130	1,100	1,360	1,880	1,960	448,550	560,610	1,233,140	4,485,540
15	13,480	33,120	1,290	1,830	1,950	425,760	514,530	1,149,990	4,260,220
16	1,660	2,280	2,510	1,790	1,980	1,408,590	1,705,950	3,841,620	14,444,730
17	3,300	7,400	18,930	14,090	16,280	591,620	635,540	1,346,080	4,878,790
18	4,910	11,830	26,290	24,240	27,620	401,520	477,810	1,024,460	3,707,860
19	10,060	24,280	31,220	30,140	32,780	404,080	486,950	1,049,040	3,942,110
20	11,590	31,450	32,150	29,960	32,890	549,060	536,120	1,188,170	4,293,700
21	5,210	12,470	33,010	30,770	33,690	573,400	649,810	1,424,680	5,282,690
22	10,530	25,600	33,300	31,700	34,440	611,320	686,890	1,488,050	5,483,000
23	8,640	22,290	39,340	35,720	39,460	1,440,700	1,723,940	3,877,020	14,468,490
24	3,760	8,340	25,770	24,630	27,590	755,890	855,100	1,843,930	6,903,170
25	8,710	21,860	35,440	33,450	36,880	734,560	820,250	1,798,270	6,700,910
26	5,480	15,210	21,670	20,480	22,810	791,060	884,090	1,968,000	7,124,730
27	5,220	12,800	32,940	31,020	34,180	1,294,460	1,580,540	3,508,760	13,254,790
28	2,930	6,350	25,120	23,700	25,520	815,700	929,670	2,073,690	7,530,190
29	5,760	14,330	23,690	22,000	24,940	680,230	816,140	1,791,660	6,801,030
30	3,810	8,490	33,480	30,810	33,920	942,560	1,196,970	2,720,950	10,140,420
Total	106,450	269,540	431,530	413,710	450,080	21,199,460	24,731,040	54,614,380	202,266,270

**Table 38. Southern Field Division Energy Data**

**November 2008**

(in kWh)

Date	West Branch			East Branch				East Branch Extension		
	Oso Pumping Plant Load	Warne Powerplant Generation	Castaic Powerplant SWP Generation /1	Alamo Powerplant Generation	Pearblossom Pumping Plant Load	Devil Canyon Powerplant Generation	Mojave Siphon Powerplant Generation	Green Spot Pumping Plant	Crafton Hills Pumping Plant	Cherry Valley Pumping Plant
1	102,733	583,850		137,619	689,093	1,032,892	80,320	25,103	32,979	478
2	641,842	616,010		294,235	1,549,482	1,077,067	151,543	6,315	615	450
3	301,822	1,071,770		123,497	518,893	1,069,175	68,206	31,870	28,862	422
4	387,277	1,215,340		55,775	400,020	970,441	41,406	36,388	39,865	3,395
5	412,218	1,237,980		77,789	431,107	1,289,794	18,562	33,569	42,772	2,870
6	452,594	1,241,190		74,614	406,351	915,348	53,679	33,215	43,000	422
7	486,129	1,142,850		80,943	404,257	800,396	41,139	33,353	43,516	422
8	525,762	1,229,770		59,978	404,975	783,040	42,642	17,266	21,599	431
9	1,153,000	1,222,620		128,689	683,151	781,270	49,674	17,708	21,897	413
10	465,188	1,231,840		73,447	387,298	779,450	29,955	32,783	42,465	403
11	360,802	857,300		80,034	402,632	808,752	38,588	17,492	22,135	403
12	338,000	850,450		132,951	619,651	743,097	55,765	32,970	43,308	3,602
13	336,663	876,370		90,467	474,227	811,857	50,010	33,274	43,725	2,964
14	335,931	558,220		62,362	354,447	906,240	33,742	32,292	42,742	450
15	336,119	898,380		52,779	353,659	826,958	34,296	13,720	16,361	441
16	897,396	761,290		322,162	1,769,551	867,642	185,611	17,619	19,972	441
17	337,901	872,890		85,235	437,019	807,387	48,091	34,139	42,951	488
18	255,505	849,130		90,378	494,098	757,733	47,063	32,990	44,201	3,180
19	289,941	782,080		89,794	342,463	800,346	32,793	28,256	37,772	2,598
20	305,000	1,051,870		65,991	340,459	798,170	31,804	24,416	32,454	469
21	488,238	1,383,270		77,383	384,167	786,541	30,439	20,438	26,898	441
22	490,743	1,555,680		68,542	252,173	792,217	30,795	13,573	16,609	431
23	1,208,446	1,760,140		202,769	1,085,304	780,340	123,536	1,503	585	431
24	610,822	1,702,440		68,710	427,767	768,532	26,661	25,584	29,685	431
25	655,446	1,772,230		66,060	302,263	787,757	26,869	24,887	31,928	422
26	709,624	1,433,550		58,534	299,940	805,726	26,968	27,617	32,116	413
27	1,286,356	1,535,660		62,213	525,862	782,545	45,995	23,188	20,766	413
28	618,089	940,550		180,419	995,354	695,144	133,070	22,500	19,486	413
29	439,525	918,680		183,070	963,021	758,979	134,266	22,766	19,923	413
30	477,020	872,050		265,487	1,391,236	817,257	134,385	22,569	19,744	422
Total	15,706,129	33,025,450	0	3,411,926	18,089,920	25,402,097	1,847,874	739,364	880,931	28,972

/1 Energy delivered to SWP by LADWP at Sylmar substation; not necessarily related to actual Castaic operations